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4	BEFORE THE PUBLIC U	UTILITIES COMMISSION
5	OF THE STATE	OF CALIFORNIA
6	Application of California-American Water	
7	Company (U210W) for Authorization to Increase its Revenues for Water Service by	A 1' 4' 22 07 YYY
8	\$55,771,300 or 18.71% in the year 2024, by \$19,565,300 or 5.50% in the year 2025, and by	Application 22-07-XXX
9	\$19,892,400 or 5.30% in the year 2026.	
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13	DIRECT TESTIMONY OF I	BAHMAN POURTAHERIAN
14	(FINAL API	PLICATION)
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28	Dated: July 1, 2022	
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1 BEFORE THE PUBLIC UTILITIES COMMISSION 2 OF THE STATE OF CALIFORNIA 3 Application of California-American Water 4 Company (U210W) for Authorization to Increase its Revenues for Water Service by 5 Application 22-07-XXX \$55,771,300 or 18.71% in the year 2024, by 6 \$19,565,300 or 5.50% in the year 2025, and by \$19,892,400 or 5.30% in the year 2026. 7 8 9 10 DIRECT TESTIMONY OF BAHMAN POURTAHERIAN 11 (FINAL APPLICATION) 12 I. INTRODUCTION 13 01. Please state your name, business address, and telephone number. 14 A1. My name is Bahman Pourtaherian. My business address is 55 Drohan Dr, Guelph, 15 Ontario, Canada. My business telephone number is 916-693-1386. 16 17 Q2. By whom are you employed and in what capacity? 18 A2. I am self-employed as a consultant. My firm's name is Blue Planet Consulting. My 19 consulting expertise is in the areas of regulatory and financial modeling. 20 21 Q3. Please briefly outline your responsibilities as it relates to your assignment with California 22 American Water. 23 A3. I am responsible for financial, economic, and regulatory modeling, including results of 24 operation and related issues. I provide expertise in the preparation of rate proceedings, 25 advice letters, and other regulatory applications. That experience includes filings before 26 the California Public Utilities Commission ("Commission"). 27

Briefly describe your education background.

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A4. I received a Bachelor of Arts in Economics from the University of California at Berkeley.

I am currently attending the University of Guelph and working towards my master's degree in Food, Agriculture, and Natural Resources Economics.

- Q5. Please describe your professional experience.
- A5. I previously was employed as a senior financial analyst by California-American Water Company ("California American Water") between 2015 and 2019.
- Q6. Have you previously testified before utility regulatory commissions?
- A6. Yes, I have prepared direct and rebuttal testimony for California American Water in Application ("A.") 19-07-004, California American Water's 2019 general rate case ("GRC") application. Additionally, I have presented at Commission workshops and to Administrative Law Judges outside of the evidentiary hearing setting. I also provided modeling assistance to the Commission under a protective order in connection with A.16-07-002, California American Water's 2016 GRC.

II. PURPOSE OF TESTIMONY

- Q7. What is the purpose of your testimony?
- A7. The purpose of my testimony is to provide support for various aspects of California

 American Water's statewide GRC. I have direct responsibility for numerous areas in this

 Application. Those responsibilities include, but are not limited to:

Area	Key Items	
Application Development and	Status of Results of Operation ("RO") Model	
Presentation	Enhancements to RO Model	
	Inclusion of Acquisitions in the RO Model	

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Area	Key Items	
	Summary of Revenue Requirement Request	
Revenue Section	 Customer Count Development Impact of acquisitions in Northern and Southern Divisions Consumption Development Total Water Production Non-revenue water Source of Supply Mix Revenues 	
Production Costs Section	Production Costs	
General Taxes Section	Ad Valorem TaxesPayroll TaxesOther General Taxes	
Depreciation Expense	Depreciation Expense Calculation	
Rate Base Components	 Discussion of Rate Base Components Utility Plant in Service ("UPIS") and Accumulated Reserve Materials and Supplies Working Cash, Operational ("WCOP") Advances and Contributions Deferred Income Taxes 	

Area	Key Items
Lead/Lag Study	Lead Lag Study and calculation of Revenue and Expense Leads and Lags
Consolidation and Rate Design Modelling	Rate design proposals for Southern, Central and Northern Divisions

III. SUMMARY OF APPLICATION DEVELOPMENT & PRESENTATION

- Q8. Please discuss the status of California American Water's RO Model and the enhancements that were made since the last rate case.
- A8. In the 2016 GRC, California American Water presented to the Commission a new macrobased Excel model to replace the old RO Model that had been used since the early 2000s. In 2018, further enhancements were made in the RO model which were consolidating and creating new Global Data files, including an Acquisition Model in the RO model, development of a consolidation mechanisms, enhancement in calculating the Lead Lag Study, building a more robust and dynamic revenue and rate design models, and development of Comparison Exhibits which was used in settlements and decisions.

Since the last rate case proceeding, A.19-07-004, there have been additional enhancements to the model.

• The first enhancement was updating the VBA codes to meet the new Excel code library requirements. In every version of Excel as part of the updates to the feature of the program, some of the library requirements will change as well. The changes to the library requirement made the RO Model VBA code crash so there was a need to update the codes to meet the new library requirements.

- The second enhancement was optimizing the performance of the RO Model. As the complexity of RO Model and its features increased, the performance of the model was reduced due to heavy calculations ran through VBA codes in the background. To increase the performance of the model, Utility Consulting Group ("UCG") performed an optimization review of the RO model files and identified the areas that could be improved. As a result of this review there were some minor changes made to various files to improve the performance of the model.
- The third enhancement was the development of VBA codes to check for the links and errors. Overtime as the result of making multiple copies of the model for analysis and GRC filings, some link and name errors appeared in the model. New VBA tools were developed to check the model for any link and name range errors.
- The fourth enhancement to the RO model was consolidation of all revenue and rate design files into one file. Each division had a separate revenue and rate design files which were overly complex and calculations in those files would take a long time. In this enhancement the revenue and rate design files for three divisions of Northern, Central, and Southern were consolidated into one file and the calculation speed was increased.
- The last enhancement of the RO Model involved development of documentation and a troubleshooting manual for the RO model.
- Q9. Are there any additional enhancements that are being considered by California American Water but have not been included in the RO Model at this time?
- A9. Yes. The Company was looking to include in the RO Model an Alert System for RO Model Users. This enhancement was planned to get completed for this rate case, but due

to higher priority enhancements it was postponed to the next GRC. The purpose of this alert system is to advise RO Model Users that data or changes made to the RO Model were not made correctly and that as a result, the RO Model's calculations and integrity may be compromised.

- Q10. Does the Application include the impact of approved, pending and proposed acquisitions of water and wastewater systems?
- A10. Yes. This Application includes all of California American Water's existing water and wastewater operations as of the end of 2021. Additional information on acquisitions is set forth in Section XI of the Direct Testimony of Stephen (Wes) Owens and Sections III and VIII of the Direct Testimony of Garry Hofer.
- Q11. Please provide a summary of California American Water's revenue requirement request in this Application.
- A11. California American Water is requesting a statewide increase of \$55,771,300 or 18.71% in 2024, an increase of \$19,565,300 or 5.50% in 2025, and an increase of \$19,892,400 or 5.30% in the year 2026. A breakdown of this increase by Division and District is provided in the Application for this proceeding.

IV. REVENUE SECTION

A. Customer Count Development

- Q12. Please explain the customer count projections in this Application.
- A12. The customer count forecast was developed by economic and public policy consultants, M-Cubed, and is presented in the testimony of David Mitchell in Attachment 2 to Mr. Mitchell's testimony. M-Cubed has expertise addressing sales forecasting and rate design issues for energy, municipal and investor-owned water utilities across the State. In the balanced rates decision, D.16-12-026, Ordering Paragraph #2, the Commission required Class A and B water utilities to propose improved forecast methodologies in

their next GRCs that consider consumption trends during and following the drought, and other factors affecting consumption. The historical data and forecast calculation can be found in the RO Model included in the Minimum Data Requirements.

- Q13. In addition to the work performed by M-Cubed, is there other testimony on the topic of customer count forecasts in this GRC application?
- A13. Yes. Additional testimony on the customer count forecast is provided by California American Water Vice President of Operations, Garry Hofer, Section III. New housing developments within California American Water's service areas in Placer County and the City of Rancho Cordova are expected over the next few years. Annual growth projections related to this non-historical average growth are discussed in the M-Cubed Report. Section III of the Direct Testimony of Central Division General Manager Christopher Cook also addresses growth, i.e., the existence of a moratorium on new connections in the Monterey Main system.
- Q14. Please explain the customer growth forecast for the Monterey County District water customers.
- A14. It is my understanding that portions of the Monterey County District have been and remain under a growth moratorium due to continued water supply issues in the region.

 As a result, California American Water has held customer counts for these areas flat to 2021 in all projected years for its water operations. The Direct Testimony of Christopher Cook at Section III discusses the legal, environmental and regulatory limits on growth in our Central Division and why there is no customer count growth projected.
- Q15. California American Water has included three new acquisitions in this GRC. How were customer count forecasts developed for these water systems?

D.16-12-026, Providing Guidance on Water Rate Structure and Tiered Rates, December 9, 2016, p.84.

A15. California American Water included the acquisition of Bellflower, Warring and Bass Lake. California American Water includes a one-time customer increase associated with acquisitions. For Bass Lake, the number of customers and consumption by class were based on the most recent Annual CPUC Report. For Warring and Bellflower, the number of customers and consumption by class were provided by these water utilities through a data request response. These customers have been included in California American Water's customer base beginning in 2022 or 2023 based on when the acquisition is expected to occur.

B. Consumption Development

- Q16. Please explain California American Water's consumption estimates for 2024 through 2026.
- A16. The consumption forecast by customer class by district was developed by M-Cubed and is presented in the testimony of David Mitchell. Please refer to the testimony of David Mitchell and Attachment 2 to Mr. Mitchell's testimony.
- Q17. Were there any exceptions where Mr. Mitchell was not able to apply econometric models?
- A17. I am aware of a couple of exceptions. First, California American Water did not have significant historical data to develop econometric models for the Fruitridge system, Bellflower, Warring and Bass Lake, and East Pasadena customers. For Bellflower, Warring and Bass Lake, the consumption forecast was based on recent annual reports and data responses from the acquired Company. For the East Pasadena system that was acquired in 2021, the consumption forecast was based on the most recent annual report. For the Fruitridge system, acquired in 2020, California American Water is proposing to use the same forecasted consumption per customer as projected for the remainder of the Sacramento system. The reason for using the Sacramento consumption projections for Fruitridge is that based on the historical experience in converting the non-metered

customers in Sacramento to meter customers, there was a very significant drop in consumption. We believe that based on this prior historical trend, and the fact that the Fruitridge service area is very similar to other lower income areas in the Sacramento Valley, that this same reaction of customer consumption reduction with metering will occur.

- Did the Company calculate a projected level of sales for the residential and commercial Q18. customers using the New Committee Method?
- A18. No.

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Q19. Why did California American Water choose not to calculate projected sales using the New Committee Method?

A19. The New Committee Method is the name given to the Commission's Guide for Adjusting and Estimating Operating Revenues of Water Utilities. It was formerly identified as Standard Practice ("SP") U-25-W but is now referenced in D.04-06-018, Interim Order Adopting Rate Case Plan at page 21. The method's purpose is to promote reasonable uniformity and reliability in the preparation of revenue estimates in connection with formal rate proceedings. California American Water interprets the Balanced Rates Phase 2 Decision, D.16-12-026, as requiring new forecasting tools and methods. The analysis is provided in Attachment 2 to Mr. Mitchell's testimony. The Company has not used the results from the New Committee Method for many years. California American Water does not believe the results of the regression analysis are a reasonable indicator of future consumption levels given the decline in consumption trends, the implementation of conservation rates, conservation education, and the State of California's conservation commitments.

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C. **Total Water Production**

Q20. What is the purpose of your testimony in regard to water production?

of A.13-07-002, p.16.

averages and not on percentages. The percentages are still shown for informational purposes, but they are not used in developing forecasts. They are only shown as the results of the forecasts.

You stated above that non-revenue water is the difference between total water sales and O25. total production and there are differences to explain. Please address the reasons

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- differences can occur.
- There are a number of reasons why California American Water may not use the 5-year average of differences in production and sales to develop a non-revenue amount. If you have unmetered sales in any year, as we did in the Sacramento District, then it may be impossible to get accurate results for non-revenue water in a particular period. There could be reasons an unexpectedly high level of non-revenue water occurred in a particular period that would need to be adjusted out. There may be certain situations where water produced does not enter the system for distribution purposes but for other purposes, such as aquifer storage and recovery ("ASR"), which would need to be eliminated from production. These are some of the general reasons that a recorded 5-year average may not be used in a particular situation.
- O26. Please inform the Commission in what service area's total production is not used to develop non-revenue water and why.
- A26. This only occurs in the Central Division, where ASR injection is used, and that water must be removed from total production as it is injected into the aquifer. No adjustment is necessary for ASR recovery as that amount is already a part of well production.
- Q27. What is the Monterey Non Revenue Water ("NRW") Reward Penalty Mechanism?
- A27. It is described as follows in D.09-07-021 on pages 56-57:

Specifically, we will create an unaccounted for water penalty/reward program to be calculated based on Cal-Am's most recent annual unaccounted for water percentage. To the extent Cal-Am exceeds the standards above, Cal-Am will earn a financial reward and should Cal-Am fail to achieve those standards, Cal-Am will incur a financial penalty. The per acre-foot amount to be used to calculate the financial reward or penalty is \$2,018.79/acre-foot. In its annual Water Revenue Adjustment Mechanism ("WRAM") filing, Cal-Am will report the difference between its systems' water production and billed water. To the extent this amount is less than the percentage adopted above, Cal-Am will earn a reward, which will be included in the amount to be amortized to ratepayers as part of the WRAM Advice Letter filing. If the difference between production and billing is greater than the adopted percentage, then a similarly calculated penalty will be offset against any amount to be collected under the WRAM.

- Q28. Is California American Water requesting any change to the last adopted NRW Reward Penalty Mechanism?
- A28. No, California American Water is not proposing any changes to the mechanism, as it was last approved in D.18-12-021.

Q29. What issues arise in the determination of water production by source?

A29. There are many issues that must be considered on how the water production by source should be determined. The purchased water and power workpapers in the filing set the level of water production that is appropriate for all of the operating water systems. I will address the calculation of production costs later in my testimony. What I want to raise here is that changes in water production all need to be reviewed for the effects on the sources where the changes will have to be made in the systems. It is very important to understand that changes cannot simply be made on a pro-rata basis or on a basis of reductions to the highest cost source. There are many pressure zones and operating zones

in each operating District. For example, Sacramento has 10 operating systems and a change in production would have to be evaluated as to how that change may apply to different systems and how that would impact the various sources. Some of the Sacramento systems are 100% purchased water, some are 100% well water, and others are a combination of the two sources. But additionally, there are certain minimum purchases of water that may have to be considered.

As another example, in the San Marino service area in Los Angeles, there are many considerations in changing sources and water production amounts, including a trade-off in pumping rights with the Duarte service area. Again, all this must be considered before making any changes in the water production amounts per source as filed in our application.

D. Revenues

- Q30. How did California American Water calculate its present rate revenue?
- A30. California American Water used the rates approved in its 2022 ACAM and step advice letter ("AL") filings, along with the following adjustments:

- The included water offset surcharges currently in effect have been included in present rate revenues.
- 2) Inclusion of current rate revenue of East Pasadena in present rate revenue.
- 3) Inclusion of current rate revenues associated with the three pending acquisitions Bellflower, Warring and Bass Lake – have been included in present rate revenues.

E. Other Revenues

- Q31. Please describe Other Revenues?
- A31. Other Revenues consist primarily of Method 5 revenues related to the tax gross up on applicable contributions and advances, revenues from non-tariffed products and services

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V. PRODUCTION COSTS SECTION

customers only.

after hour charges, etc.

How are Other Revenues forecasted?

A. Source of Supply – Purchased Water (Account #704)

- Q33. How is purchased water forecast for 2024 and 2025?
- A33. The detailed calculations are included in the Chapter 4 workpapers. The costs are primarily based on estimated total water production, district operations assessments of sources and uses of produced and purchased water, and the current prices and assessments from water provider agencies. If water production values are changed, the costs tied to that production have to be reviewed in their entirety, as the sources and uses of water can also change.

such as antenna leases, miscellaneous revenue consisting of late fees, reconnection fees,

Method 5 revenues are forecast based on application of the tariffed gross up factor

applied to the forecasted applicable contributions and advances. Antenna leases are

forecasted based on the five year average from 2017 through 2021. All other items are

forecasted based on the two year average for 2018 and 2019. These years are chosen for

Company was under a disconnection moratorium. Additionally, as discussed in the Direct

the forecast because they exclude impacts from the COVID pandemic period, during

Testimony of Patrick Pilz at Section XIV California American Water is proposing to

eliminate late payment fees for residential customers. This proposal is reflected in the

forecast of Other Revenues, which includes forecasted late fees for non-residential

which California American Water did not charge late fees and during which the

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Division has historically recorded Seaside Basin Watermaster costs in the purchased

The exceptions to this process are primarily in the Central Division. The Central

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water account. This practice is continued in this application. The costs projected for the test year reflect the Marina Coastal Wheeler fee and the 5-year average of Watermaster assessment, escalated for inflation. This is the best knowledge that California American Water has of the likely charges it will incur. Additionally, the purchased water contains costs related to the Sand City Desalination plant and the Pure Water Monterey Project. The specifics of the costs included are discussed later in this testimony.

B. Source of Supply – Sand City Desalination (Account #704)

- Q34. Please explain your request as it pertains to the Sand City desalination facility.
- A34. Currently, D.13-04-015 allows California American Water to update costs related to Sand City with the exception of fixed costs of \$414,672³. In addition to the fixed costs, the other costs include repair costs, other operations and maintenance costs, purchased power and property taxes. All of these were calculated based on a five-year inflation adjusted average based on the rate case plan methodology. The 2016 GRC decision, D.18-12-021, approved California American Water's request to move the Sand City Desalination costs into the Modified Cost Balancing Account ("MCBA") for recovery through the MCBA surcharge, similar to all other purchased water costs.
- Q35. What are the costs currently authorized and how do they compare with what is proposed?
- 0 | A35. Please see the table below.

³ D.13-04-015 Decision Authorizing Filing of Sand City Desalination Plant Purchased Water Balancing Account and Surcharge Advice Letters, and Approving Partial Settlement Agreement; Ordering Paragraph 6b

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	2021	2024
	Authorized	Proposed
Repair Costs	\$241,646	\$246,526
Other O&M Costs	\$24,584	\$35,029
Purchased Power	\$151,911	\$190,728
Property Taxes	<u>\$73,079</u>	<u>\$97,093</u>
Total	\$491,220	\$569,376
Fixed Cost	<u>\$414,672</u>	<u>\$414,677</u>
Total Cost	\$905,892	\$984,054
Acre Feet (AF)	300	300
\$/AF	\$3,020	\$3,280

C. Pumping – Purchased Power (Account #726)

Q36. How is purchased power forecast for 2024 and 2025?

A36. A34. Purchased power is calculated utilizing an estimate of total kilowatt hour ("kwh") usage multiplied by the cost per kwh for each district. Based on 2021 data from California American Water's power providers, kwh usage was divided by 2021 water production to determine a kwh/ccf metric for each district. This metric is then applied against the estimated water production quantities in 2024 and 2025 to develop total kwh usage in those years. Similarly, the cost per kwh is calculated by taking the 2021 cost per district and dividing it by 2021's kwh usage. 2021 data were used because they contain the most up to date pricing from power providers and are more representative of the costs to be incurred.

D. Water Treatment – Chemicals (Account #744)

- Q37. How were chemicals forecast for 2024 and 2025?
- A37. In summary, chemical costs were calculated based on three years of average actual chemical usage, three years of actual water production, projected chemical prices for 2022, forecasted chemical costs for the years 2022 2025 and using projected water production for the years 2022 2025. This data was used for all service areas of the company and are included in PUC account 744.

The detailed calculation is as follows: First, the analysis incorporates current chemical costs as of May 2022. Second, a three-year average of each chemical quantity by district was calculated. Third, a three-year average of water production by district was calculated. Using the first and second calculation discussed above, a recorded escalated price per unit of each chemical by district was calculated. Then using the second and third calculation discussed above, a chemical pounds per unit of water production was calculated. The recorded escalated price per pound of chemical was further escalated for years 2022 – 2025 to calculate a projected per unit cost per lb. of each chemical by year for 2022 - 2025. This projected per unit cost per pound of chemical was then multiplied by the projected total water production and the pounds of chemical per unit of water production to calculate the total projected chemical cost by district by year for 2022 - 2025.

- Q38. Is it important to use up to date chemical cost information?
- A38. Yes, it is. It is my understanding that California American Water has experienced, and is expected to experience in the future, substantial increases in chemical costs. Factors driving chemical cost volatility, including COVID-19, inflationary growth, the conflict in Ukraine and associated impacts on energy prices, and overall supply and demand pressure within a consolidating market are addressed in Section IX of the Testimony of Stephen (Wes) Owens. Due to this price volatility, it is critical to use the most up to date chemical cost factors, and to use realistic escalation factors to forecast chemical expense

through the 2024 test year. In this instance, I recommend use of forecasted chemical costs for 2023 through 2025 based on input from Service Company's centralized Supply Chain Department.

GENERAL TAXES

- Q39. How were the Ad Valorem taxes calculated in the RO model?
- A39. The Ad Valorem tax rate in RO model is calculated by dividing actual Ad Valorem taxes paid in year 2021 by the actual taxable plant for the year 2020. Forecasted Ad Valorem tax expense was calculated for the years 2022 - 2025 by multiplying the calculated Ad Valorem tax rates by the forecasted taxable plant.
- Q40. How were the Payroll Taxes calculated in the RO model?

A40. The Company applied the statutory tax rates and bases to each employees' projected wages, then applied the capitalization rate for each district to determine the projected amounts to be expensed and capitalized. For Federal Insurance Contributions Act ("FICA"), the Company used the taxable base of \$147,000 and a rate of 6.20%. For the Medicare portion of FICA, there is no taxable base limit. A rate of 1.45% was applied to all wages. For State Unemployment Tax Act or SUTA, the Company used a taxable base of \$7,000 and a rate of 6.20%. For Federal Unemployment Tax Act or FUTA, the

Company used a taxable base of \$7,000 and a rate of 0.6%.

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- Q41. How were the Other Taxes and License Taxes calculated in the RO model?
- A41. The Company used a five-year average and applied the escalation factors to calculate the projected amounts for 2022 – 2025.

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VII. **DEPRECIATION EXPENSE**

O42. How were the estimates for plant depreciation expense calculated?

A42. The current authorized depreciation rates in D.18-12-021 were used to estimate the depreciation expense for 2022 - 2023. The current approved depreciation rates were applied to the average Utility Plant in Service for each of the years 2022 - 2023. California American Water hired Alliance Consulting Group to prepare a Depreciation Study. Based on the results of that study, included as Attachment 6 to the Direct Testimony of Wes Owens, California American Water has utilized the proposed depreciation rates to calculate the depreciation expense for 2024 – 2025. The proposed depreciation rates were applied to the average Utility Plant in Service for 2024 – 2025. Please refer to the Direct Testimony of Wes Owens at Section XIII for a discussion of the development of the proposed depreciation rates.

VIII. RATE BASE

- Q43. California American Water's proposed rate base in this application represents an increase of approximately \$254 million over the level approved for 2021 in the last rate case. Can you please identify the drivers for the increased rate base?
- A43. There are three main drivers for the increase in the Company's rate base. First is an increase in capital and the capital-related rate base elements (utility plant, accumulated depreciation, customer advances and Contributions in Aid of Construction ["CIAC"]), which represents the majority of the proposed increase. The second and smaller driver relates to the acquisitions that the Company includes in rate base.
- Q44. Please discuss the elements of rate base as shown in Chapter 9, Table 9.1 in each RO Report.
- A44. Rate base represents California American Water's net investment in Utility Plant assets and other assets that are used in providing water and wastewater services to its customers. The Company's proposed rate base for each district or consolidated group consists of the following: 1) investments in Utility Plant assets; 2) Materials and Supplies; 3) WCOP; and 4) Working Cash, Lead Lag Study. This gross investment is reduced by the

Accumulated Reserve for Depreciation, Customer Advances and Contributions, Unamortized Advances and Contributions and Deferred Income Taxes, both federal and state. The investment in Utility Plant assets includes both investments on projects completed and placed into service, and projects not completed and included in Construction Work in Progress ("CWIP").

How did the Company calculate each component of rate base that you have identified in Q45. the response to the previous question?

A45. In this section of my direct testimony, I will discuss each of the rate base elements that I noted with the exception of Working Cash, Lead Lag Study. I have devoted an entire section in my direct testimony to the Working Cash, Lead Lag Study.

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The two largest components of rate base are the balance in Weighted Average Utility Plant in Service ("UPIS") and the balance in the Weighted Average Accumulated Reserve for Depreciation, as shown in each RO Report in Chapter 9 Table 9.1. The Weighted Average UPIS balance contains the original cost of the assets that are or will be devoted to providing utility services to the customers of California American Water. For water assets, they include facilities devoted to source of supply, pumping, water treatment, transmission and distribution and administrative and general. For wastewater assets, they include facilities devoted to treatment, collection and pumping.

The Weighted Average Accumulated Reserve for Depreciation balance contains the accumulated balance of depreciation expense taken on all utility assets to date, less utility plant retirements and cost of removal, net of salvage. This rate base element is deducted from rate base.

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How was the forecast of UPIS calculated for 2022 - 2025? O46.

A46.

- The forecast of year-end UPIS for 2022 2025 was calculated by adding the projected capital expenditures to the recorded balance of UPIS as of December 2021 and deducting annual plant retirements. Forecast capital expenditures are supported by the Strategic Capital Expenditure Plan ("SCEP"). The SCEP reflects all of the capital projects and capital expenditures for each district for 2022 2025. When a capital project is completed, the cost of the project is recorded to the appropriate plant account, which adds to the utility plant balance in the year in which the project is completed and reduces the balance in CWIP. The forecast of plant retirements for each year 2022 2025 is based on a 5-year historical average ratio (2017 2021) consistent with the adjustments addressed in the last GRC and accepted in D.21-11-018. The ratio calculation is done by utility plant account. However, in some instances where the 5-year average ratio for an account appeared to be not reasonable, the historical data was reviewed. Based on this review, adjustments were made to the historical retirement ratios. These adjustments included retirement outliers and/or one-time retirements.
- Q47. How did the Company develop the SCEP?
- A47. A SCEP is developed for each district. Section IV of the Direct Testimony of Ian Crooks discusses the SCEP or Capital Investment Management ("CIM") process. Generally, the SCEP consists of three project types. The first type is projects funded by others. The second type is recurring projects ("RPs"). The third type is investment projects ("IPs"). The Engineering Department forecasts direct costs in each project. Direct costs include direct company labor, direct overhead benefits, direct overhead for workers compensation, outside contractor and engineering and if required, legal fees. Direct costs get forecast in the project for engineering and design, permitting, land easements or procurement, bidding, project and construction administration, technical support during construction, and actual construction costs. In addition, Engineering Overhead, and if applicable, Allowance for Funds Used During Construction ("AFUDC") and contingency costs are also forecast in the project.

Q48. Please describe Engineering Overhead.

A48. Engineering Overhead costs are those that are incurred to support and deliver the capital expenditure program for California American Water. These costs cannot be directly assignable to a specific capital investment project but benefit all capital investment projects. Costs included in the Engineering Overhead are indirect Company labor, labor overhead including benefits, payroll taxes, workers compensation and transportation and other costs such as employee travel costs, communication costs, contractor costs, other transportation costs and Service Company costs.

Q49. Are there any adjustments to Engineering Overhead.

A49. Yes, forecasted overhead for the Cal Am Facilities related to the Monterey Peninsula Water Supply projected are removed from the overhead pool for GRC forecasting purposes as they are included for cost recovery in A.21-11-024. Amongst other requests in that proceeding California American Water is seeking cost recovery for facilities necessary to maximize the use of the supplemental water from the Pure Water Monterey expansion. These additional facilities include (1) Carmel Valley Pump Station, (2) General Jim Moore parallel pipeline, (3) Extraction Wells 1 and 2 and chemical treatment facilities, and (4) Extraction Wells 3 and 4. Overhead related to these facilities is removed from the GRC overhead pool forecast to avoid duplication of recovery. However, if the overhead is eliminated in A.21-11-024 it must ultimately be included in the overhead pool approved in this GRC proceeding.

Q50. How are the Engineering Overhead costs allocated to ongoing capital investment projects?

⁴ A.21-11-024: Application of California-American Water Company (U210W) to obtain approval of the amended and restated water purchase agreement for the Pure Water Monterey Groundwater Replenishment Project, update supply and demand estimates for the Monterey Peninsula Water Supply Project, and cost recovery

D.18-12-021, p.290, Finding of Fact No. 189.

Overhead, which would not change if the direct project cost is reduced or eliminated, is reallocated to the remaining capital investment projects. And second, if an adjustment is made to reduce certain costs such as labor, pensions, group insurance and other postemployment benefits ("OPEBs"), then the amount that is capitalized is also reduced, which reduces the Engineering Overhead to be allocated to all the projects.

Q55. Please explain contingency costs.

A55. A project's contingency cost is a line item within a project that accounts for the likely unforeseen issues that will arise during the preliminary engineering design, permitting and construction of a project. It is necessary to define and implement contingency appropriately, so that project budgets are effectively established and managed for construction projects. Examples of some contingency items are as follows:

Minor design changes;

- Corrections for incorrect assumptions (subsurface conditions);
- Unanticipated price changes; and
- Unforeseen or new regulations, safety requirements, and codes.

Shown below are the Contingency Rates used on projects in the rate case. If a project has a contingency, then a Contingency Flag is assigned to the project.

Contingency Flag	Contingency Rates
1.	5.00%
2.	10.00%
3.	15.00%
4.	20.00%
5.	25.00%

The calculation of the cost of removal, net of salvage, was based on historical information, detailed engineering estimates, and, where available, information provided by contractor quotes.

- Q60. Table 9.1 of Chapter 9 of the RO Report reflects a calculation of the weighted average for both UPIS and the Accumulated Reserve for Depreciation. Please explain these calculations.
- A60. The amounts included in Table 9.1 of Chapter 9 for UPIS and Accumulated Reserve for Depreciation, and supported in Table 7.1 of Chapter 7 and Table 8.1 of Chapter 8, use a historical 6-year average (2016 2021) of the balances for UPIS and CWIP and Accumulated Reserve for Depreciation to calculate the forecast average balances for each year from 2022 2025. This method and calculation is a standard practice for determining the weighted average balance of UPIS and Accumulated Reserve for Depreciation in rate base. California American Water used Los Angeles's weighting factors for the Southern Division, due to the fact that the majority of assets are located in that area.
- Q61. Please discuss the calculation of the Materials and Supplies element in rate base.
- A61. Materials and Supplies represent inventories of plant materials needed to be on hand in the event of emergency (e.g., pipe, hydrants, and other plant materials, colloquially known as "Stock E") and chemicals needed for daily use (colloquially known as "Stock C"). The amounts reflected in Table 9.1 of Chapter 9 of the RO Report reflect a 5-year historical average (2017 2021) and are escalated for inflation.
- Q62. California American Water's rate base includes a balance for WCOP. What is included in the balance for this rate base element?
- A62. The balance in WCOP has typically included investments in assets required to provide utility service or for investments in assets made by the Company as a result of providing

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utility service. They include working funds, special deposits, miscellaneous receivables, prepaid audit fees, prepayments, and unamortized deferred maintenance costs. All of these items reflect a five-year average of recorded data (2017 - 2021) with the exception of the unamortized deferred maintenance costs which reflect projected levels for 2022 - 2025.

Q63. California American Water's rate base reflects a reduction for Advances for

Construction, CIAC, and Unamortized Advances and Contributions. Please discuss each

of these components and how they were developed for the rate case.

A63. The balances in each of these categories represent cost-free capital that was contributed

by others to fund capital projects. Because the funds were not contributed by the

Company, these amounts are being deducted from rate base so the Company's customers

do not pay a return on the assets funded by others. The calculation for each of these

components started with the actual recorded balance at the end of December 2021. The

recorded amounts for Advances for Construction and CIAC were adjusted for anticipated

future changes in Advances and Contributions based on the historical trends for receipts

and refunds. In addition, the amortization of the Unamortized Advances and

Contributions for the Sacramento and Larkfield Districts was continued through 2022.

Q64. And finally, please discuss the amounts reducing rate base for Accumulated Deferred

Federal and State Income Taxes.

A64. Rate base is reduced by the projected net average balance in deferred federal and state

income taxes related to plant assets, advances and contributions and investment tax

credits. Deferred income taxes are created due to a timing difference between when the

Company is permitted to deduct expenses for tax purposes versus when it is permitted to

deduct them for financial reporting purposes. For example, the Company is permitted to

generally deduct depreciation on plant assets sooner for tax purposes than for financial

reporting purposes. As a result, a deferred tax liability is created because the earlier tax

deduction for tax purposes reduces the current tax liability on the book financial reports. It is this deferred tax liability that will be deducted from rate base until the timing difference between book and tax deductions reverses.

The starting point for the calculation of deferred income taxes in rate base was the actual recorded amounts for the deferred tax liabilities, net of deferred tax assets related to utility plant assets, Advances and Contributions and Investment Tax Credits as of December 2021. This amount for each district was adjusted based on the forecasted activity for 2022 - 2025 that impacts deferred income taxes. The forecasted activity that impacts deferred income taxes are plant additions, plant retirements, tax depreciation, deductible tax repairs, book depreciation, advances and CIAC, cost of removal, net of salvage, tax gains and losses on retirement of assets, amortization of excess deferred income taxes, and the current income taxes rates of 21% for federal and 8.84% for state. As discussed in Section III of the Direct Testimony of Scott Cullen, the Company is using Power Tax to calculate the deferred tax balances for 2022 – 2025. Please explain the

larger components of deferred income taxes that are included in rate base.

The federal provisions of the Economic Tax Act of 1981 and the Tax Reform Act of 1986 ("TRA-86") require utilities to use straight-line depreciation for computing taxes charged to expenses for ratemaking purposes (normalization method of accounting), while using accelerated cost recovery system rates ("ACRS") and modified accelerated cost recovery system rates ("MACRS") for computing taxes actually paid. The difference between taxes based on book depreciation and taxes based on tax depreciation is generally credited to deferred taxes and represents the largest portion of the deferred taxes balance reflected in rate base. As discussed above, the tax repairs deduction is included in the calculation of tax depreciation.

Another component of deferred taxes is the deferred taxes associated with taxable advances and contributions. The TRA-86 required that certain advances and contributions be included in taxable income. In D.87-09-026, the Commission provided alternate accounting and ratemaking methods for advances and contributions received and income taxes paid. The Company elected to use Method 5. Under Method 5, some of the tax costs incurred on certain advances and contributions would be paid by the utility and debited to deferred taxes, thereby increasing rate base. These balances would be credited to deferred taxes as the related depreciation tax benefits of the contributed or advanced facilities are received, thereby decreasing rate base. The Tax Cut and Jobs Acts of 2017 made all contributions taxable, but in 2021, President Biden signed into law the Infrastructure Investment and Jobs Act which reversed the taxability of all customer advances and contributions with the exception of service line connection fees which continues to be taxable.

- Q65. How did California American Water calculate the accumulated customer advances and CIAC deferred taxes included in deferred income taxes in Chapter 9, Table 9.1 of each RO Report?
- A65. The Company calculated accumulated deferred revenues based on Method 5 as prescribed in D.87-09-026 for the years 2022 thru 2025. Under Method 5, a customer making a taxable Advance or CIAC pays an additional gross-up amount, based on the Company's Tariff Rule 15, at the time of the contribution, which is credited to deferred revenues minus income taxes. California American Water amortizes the deferred revenues over the tax life of the facilities acquired with the contribution, by crediting miscellaneous revenues, as reflected in Chapter 3 revenues of each RO Report.
- Q66. Do you have any other comments regarding deferred income taxes in rate base?
- A66. Yes. The calculation of the deferred taxes for 2022 2025 includes not only the deduction for tax depreciation but also includes the deduction for tax repairs, cost of

removal, gains and losses and the amortization of the excess deferred taxes, as discussed in the Direct Testimony of Scott Cullen at Sections III and IV.

IX. LEAD LAG STUDY

- Q67. What is the purpose of your direct testimony in this proceeding as it relates to Working Cash, Lead Lag Study?
- A67. My testimony addresses the calculation of the working cash allowance using the Lead Lag Study methodology and the operational cash requirement methodology as outlined in the Commission's Standard Practice ("SP") U-16-W.
- Q68. Please discuss what you mean by the phrase "working cash allowance."
- A68. Working cash allowance is a component of rate base. Its inclusion in rate base is to compensate investors for the funds provided by them which are used in the business to pay expenses prior to receipt of customer revenues to offset them.
- Q69. Please discuss California American Water's calculation of its working cash allowance using the Lead Lag Study method.
- A69. The Company calculated net revenue and expense lags. The revenue lag measures the average time in days from the time the Company provides service to its customers to the point when the customers pay the Company for the service. The expense lag measures the average number of days the Company pays its vendors for the services provided. If the difference between the average revenue lag and the average expense lag is positive, then the investors have funded the working cash allowance, which will require an increase in rate base. If the difference between the average revenue lag and the average expense lag is negative, then the customers have funded the working cash allowance, which may require a decrease in rate base.
- Q70. From what time period were data used to prepare the Lead Lag Study?

- A79. The calculation of the overall revenue lag by Division or District and lag by component are summarized in <u>Attachment 1</u> to my direct testimony.
- Q80. What expense-related lags were analyzed and included in the Lead Lag Study?
- A80. Lag times associated with the following expense categories were analyzed and considered in the study: 1) employee pensions and benefits; 2) wages and salaries payroll; 3) payroll taxes; 4) fuel and power for pumping; 5) chemicals; 6) waste disposal expense; 7) purchased water; 8) rents; 9) Service Company expenses; 10) depreciation; 11) Ad Valorem taxes; 12) income taxes; and 13) other operation and maintenance expenses.
- Q81. How were the expense-related lags calculated?
- A81. For each expense category, the Company evaluated the lag for the payment for the expenses. Some of the expense transactions and/or categories involved a service period. When a service period was involved, the number of the days in the service period was divided by 2 to calculate the average service period. Then the average service period was adjusted by either the number of days before or after the service period end date for the actual payment date.

For example, if a payment was made for services for the month of April and the actual payment date was May 20th, then the expense lag for the payment is 35 days (30 days in April divided by 2 plus the actual payment date of 20 days after the end of the service period). Another example: if a payment was made for services for the month of April and the actual payment date was April 20th, then, the expense lag for the payment would be 5 days (30 days in April divided by 2 less the actual payment date of 10 days before the end of the service period).

Q82. How is the expense lag calculated if a service period is not involved?

- A82. When a service period is not involved in the payment to a vendor, then the lag would simply be based on the number of days between when a company receives the goods or services from the vendor and the payment date for those goods or services. For example, if California American Water received goods or services from a vendor on March 31st and paid the invoice on May 2nd, then the expense lag would be 32 days (30 days in April and 2 days in May).
- Q83. You indicated that the Company analyzed individual transactions and payments for expenses to calculate the lag. How did California American Water use that data to calculate the total lag for a group of transactions within an expense category?
- A83. The calculation of an expense category lag is based on multiplying the dollar amount of the expense transactions by the calculated lag for the expense transaction item to arrive at an amount labeled as "dollar days". The total amount of the dollar days is then divided by the total amount of the actual transaction amounts to arrive at a weighted expense lag for the category.
- Q84. How did your Lead Lag Study address federal income taxes?
- A84. The lag associated with federal income tax payments was based on the provisions of the Internal Revenue Code that require estimated tax payments of 25% of total annual income taxes due on April 15, June 15, September 15, and December 15 of the current year. Taking this schedule into consideration, the study determined that the Company had a lag time of 37.00 days for federal income tax payments.
- Q85. How did the study address state income taxes?
- A85. State income taxes follow a pattern similar to federal taxes, but more front loaded. Thus, assuming three payments due on April 15 (30%), June 15 (40%), and December 15 (30%) of the current year, the study determined an expense lag time of 20.10 days.

- A86. Two expense categories require additional comment. They are depreciation expense and deferred income tax expense. These expenses are non-cash items but still require inclusion in the calculation of cash working capital using zero lag days. This approach recognizes that these two expenses occur uniformly day by day and the accumulated depreciation and deferred income tax balances are deducted from the rate base. This approach is also recommended by the Commission's SP U-16-W entitled Determination of Working Cash Allowance. In addition, the Commission recognized the use of zero lag days for depreciation expense in D.14-08-006 (San Jose Water Company's 2014 rate case).
- Q87. How is the computation of working cash allowance using the lead lag study performed for the forecast test years of 2021 and 2022?
- A87. Using the forecast expense levels for each major category, the average days lag for each expense category (as discussed previously) is multiplied by the forecast total expense for the category to calculate the dollar days weighting for each category. The total of the dollar days weighting for all expense categories is then divided by the total of the forecast expense for all categories to arrive at the weighted expense lag days for all forecast expenses. This weighted expense lag is then subtracted from the revenue lag to determine the net expense lag. If this lag is positive, then positive working cash allowance is calculated and added to rate base. If the net lag is negative, then negative working cash allowance is calculated and deducted from rate base. To calculate the amount reflected in rate base, divide the total amount of the forecast expense by 365 for the average amount per day and then multiply by the weighted net expense lag days.

⁶ D.14-08-006, In re Application of San Jose Water Company (U168W) for an Order Authorizing it to Increase Rates Charged for Water Service by \$47,394,000 or 21.51% in 2013, by \$12,963,000 or 4.87% in 2014, and by \$34,797,000 or 12.59% in 2015, pp. 96-97.

Attachment 2 shows the calculation of the working cash allowance for 2024 and 2025 for all Districts.

X. COST ALLOCATION AND RATE DESIGN MODELING

A. General Approach and Objectives

- Q88. Please explain, in general terms, the global concept in the cost allocation and rate design proposals requested by California American Water in this submission.
- A88. California American Water is generally proposing to maintain most of the structural portions of the existing rate designs in its districts. By structural portions of the rate designs for this case, I am referring to the number of blocks in the rate design, the tier break points and the general applicability of the designs to the various service areas within each Division. However, in regards to recent acquisitions, some of the structural portions of their current designs are proposed to change to continue the previous practice of moderation in changes to ultimately incorporate the acquisition customers into the rates of the historical California American Water districts. As addressed in the testimony of Jeffrey T. Linam, Section III.G, the Company's policy is to move acquired system rate design to the Divisional structure gradually over time. The proposed rate designs are consistent with that approach.
- Q89. In the previous general rate case, California American Water also proposed to maintain other portions of the rate design including the percentage of water use in the per tier and, for the most part, maintain the percentages of the revenue recovery in the fixed cost meter charge. Are you proposing to do the same in this proceeding?
- A89. California American Water proposes changes to the percentage of the total revenue requirement collected in the monthly fixed service charge. The Company also proposes changes to the meter ratios for its non-residential customers, which will then allocate more of the fixed cost recovery to non-residential customers and reduce the recovery to the residential customers, over that which would have occurred had the meter ratios

remained the same for both classifications. These changes are addressed in more detail below. However, other aspects of rate design, including number of volumetric tiers, tier break points and rate differentials to the standard quantity rate are consistent with those approved in D.21-11-018, with minor exceptions. California American Water would make these proposals regardless of whether the decoupling Water Revenue Adjustment Mechanism and Modified Cost Balancing Account ("WRAM/MCBA") mechanism that has been in place since 2008 in most California American Water districts was eliminated or not. As noted in the Direct Testimony of Jeffrey Linam, Section III. G., California American Water believes that use of the WRAM/MCBA in conjunction with conservation rates is far superior in providing cost benefits to low use and low-income customers, as well as ensuring that approved regulated costs can be most efficiently recovered.

Please explain why California American Water proposes to make the changes to the rate design mentioned in the previous response.

A90. California American Water believes that the current rate design parameters effectively balance the essential needs of customers, the obligations of California American Water as the steward in the protection of a limited natural resource, and the regulatory compact providing the Company with the ability to recover its authorized revenue requirement on average over time. In D.20-08-047 the Commission ordered all regulated water utilities to propose new rate designs that would ensure that the ability of the Company reasonably recover its authorized revenue requirements with the elimination of the WRAM/MCBA and the institution of a Monterey-Style WRAM ("M-WRAM") and Incremental Cost Balancing Account ("ICBA"). Hence, as a result of that decision California American Water has made changes to its proposed rate designs in its various service areas so it has a more reasonable ability to recover its revenue requirement, on average, over time.

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Q91. In general terms, what changes is California American Water proposing in relation to the amount of revenue recovery through the monthly fixed meter charge?

- A91. Generally, what California American Water is proposing is that the percentage of revenue recovered in the monthly meter charge should increase in most service areas. It should be noted that to increase the revenue collected in the monthly meter charge in each service area resulted in other slight rate design modifications depending on a number of circumstances, including the impact to low-income customers, overall rate increase on low use customers and the ability to still maintain a rate design with the intended purpose to promote general awareness of conservation needs. Additionally, and as noted above, there will be exceptions in the proposed rate designs for the more recent acquisitions to ensure moderation of the impacts when attempting divisional consolidation over time.
- O92. Please provide a brief explanation of the distinction between a revenue requirement calculation and the rate design.
- A92. The revenue requirement is the total amount of money the Company needs to pay all costs and earn a reasonable return of and on its investment. The level of revenue requirement is determined by the Commission. Once determined, the next step is to allocate the revenue requirement to the utility's customers through the rates they pay. This process is known as rate design, i.e., what rates or prices the Company needs to charge each customer in order to collect its revenue requirement. In this GRC application, California American Water is proposing to modify its existing rate design as provided in the below sections. The proposed rate design changes have been applied to the proposed revenues of each ratemaking area to develop the base rates included in the GRC application, proposed tariffs, and supporting reports.
- Q93. When was the last time the current rate designs for California American Water's Districts were authorized?

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A93. The current rate designs were reviewed and adopted by the Commission as part of California American Water's 2019 GRC for the years 2021 through 2023. The new tariffs and rates were implemented on March 4, 2022.

Q94. What other key principle has the Commission articulated around rate design?

A94. In 2016, the Commission issued the "Balanced Rates Decision" (D.16-12-026), which provided the following introduction:

In light of California's ongoing commitment to water conservation and the changed water landscape spurred by this historic period of drought, we adopt goals and objectives articulated in Attachment A to this Decision that update the water rate case plan, along with policies and methods to promote accuracy and transparency in water rates, and water service sustainability, quality, and affordability. This Decision adopts as a primary objective an emphasis on rate design that fosters safe, reliable service at just and reasonable rates for all rate payers by using principles of: flexibility to address utility and district circumstances, equity, conservation signals to promote sustainability with a directive to address outlier customer behavior, and action to increase data availability and use for customer and system use.

The Commission discussed several tools companies should use in their subsequent rate cases to further the goals and objectives articulated in Attachment A of the decision. Consistent with this guidance, California American Water identified several objectives as equally important in evaluating its rate design. Those objectives or goals include: 1) affordability; 2) conservation/efficient water use; 3) equity; and 4) rate clarity and simplification. In pursuit of these rate design objectives, the rate design policies

⁷ D.16-12-026, p. 2.

⁸ Available at https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M170/K726/170726273.PDF.

articulated in the Direct Testimony of Jeffrey Linam, Section III.G. and including the Company's proposed cost allocation and consolidation requests, California American Water believes that: 1) these changes should be made gradually so that customers can adapt over time to the adjusted price signals; 2) the break points for the residential inclining block rates should be updated, if necessary, using current water usage patterns; and 3) greater revenue recovery should be shifted from commodity rates to service charges to better align with California American Water's high fixed costs.

Q95. How did California American Water develop the revenue requirement applicable to general metered rates?

A95. The revenue requirement for general metered rates was developed by subtracting from each district's overall revenue requirement all revenue proposed to be generated by: 1) private fire hydrants and services; 2) insufficient fund checks and other instruments; 3) reconnection charges; 4) the appropriate level of revenue from non-tariff products and services; 5) Method 5 revenues; and 6) any other revenue that is not appropriately considered as general metered services.

Q96. Was there any other change in the development of the revenue requirements on a divisional/district basis?

A96. Yes, as is noted in Q&A 101 below, we have proposed to collect a 50% portion of the revenue requirement of net T&D plant assets to be collected on a customer basis across all divisions. This allocation of T&D net plant assets is to ensure rate stabilization of net assets that are common among all customers. For more details on this proposal please see the testimony of Jeffrey Linam at Section IV.D.

Q97. Please define what a rate differential is in the context of the conservation rate design proposed in your testimony.

A97. A rate differential is how much higher or lower a price is in relation to another price in terms of percentage. For example, if rate A = \$1.00 and rate B = \$1.05, the rate differential for rate B in comparison to rate A is 105%. If rate C = \$0.90, the differential would be 90% of rate A. In this context, rate A is also known as the "base rate", because all other rates are based on this price.

The intent of the rates is to recover the overall revenue requirement, however, since the recovery is based on estimated customers and average estimated water use by each customer, and rates will actually recover revenue based on actual use and actual customers, the actual revenue requirement collected will not match exactly the estimated revenue requirement.

B. Rate Design Strategy – M-Cubed

- Q98. California American Water hired economic and public policy consultants, M-Cubed, to develop various rate design scenarios. Why did California American Water hire M-Cubed to develop rate design scenarios and provide testimony in this application?
- A98. M-Cubed has expertise addressing rate design issues for other utilities. The decision to hire M-Cubed and additional information is provided in the testimony of Jeffrey Linam in Section VI.
- Q99. What areas of rate design did M-Cubed focus on and how does your testimony coordinate with that of M-Cubed?
- A99. I provided to David Mitchell of M-Cubed, the historical customer data necessary to establish both the sales forecast and the rate design scenarios. Also provided to M-Cubed were various parameter expectations that needed to be considered regarding what percentage of revenue should be collected in the service charges and various quartile impact variations. M-Cubed analyzed and presented various rate design scenarios that informed the rate design recommendations listed below. M-Cubed developed a series of

Technical Memorandum ("TMs") that are attached to the testimony of David Mitchell as Attachment 3 (the "Rate Design Report"): (1) Southern Division TM; (2) Central Division TM #1, (3) Central Division TM #2, (4) Northern Division TM #1, and (5) Northern Division TM #2.

Q100. Is California American Water proposing any changes to the CAP discount for its districts based on the rate design policies outlined in the Direct Testimony of Jeffrey Linam, Section III.G?

A100. Yes. The stated policy objective was to increase the CAP discount to eliminate any impact of the proposed change in the meter charges for the Company's low-income customers. To ensure the objectives are met, the proposed CAP discount would increase to 25% for all districts for across the state, with the exception of Monterey where California American Water proposes to increase it to 35% for the Monterey County service area water customers.

C. General Revenue Requirement Allocations Applicable to All Service Areas.

- Q101. Is California American Water proposing global considerations for revenue consolidations and/or global proposals for rate designs?
- A101. Yes, there are three such items contained in proposals in this application. The first is to standardize, for the most part, the percent of fixed costs to be recovered in the monthly meter charges to fifty percent. This proposal would be applicable to all service areas except the Central Satellite systems in the Central Division. The percent of the fixed cost recovery in the meter charge is proposed to be set at 50% of fixed cost recovery for all service areas except it is proposed to be set at 35% for the Central Satellite systems, rather than at 50%. This proposal is explained in the Direct Testimony of Jeffrey Linam at Section III.G.

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The second general global item is that we are proposing to increase the fixed cost service charge revenue collected from non-residential customers and reduce the amount collected from residential customers. The Company is requesting that the monthly fixed charge rate for meter size for non-residential customers be set at a 50% percent higher monthly rate than the equivalent size meter rate for residential customers, which is explained below. This proposal is further explained in the Direct Testimony of Jeffrey Linam at Section III.G.

The third general global item that is requested is the consolidation of 50% of the revenue requirement of all transmission and distribution ("T&D") net plant assets recovered across the present Divisional rates and reallocation of that revenue requirement based on number of customers. This proposal is fully detailed and explained in the testimony of Jeffrey Linam at Section IV.D.

D. Rate Design Plan - Central Division

- Q102. Please discuss the rate design plan for the Monterey County District Single-Family and Multi-Family Customers.
- A102. There are two distinct tariff areas within the Central Division the Monterey Service Area and the Central Satellites. The tariff for Central Satellites also includes our Chualar service area.

1. **Monterey Service Area – Residential Customers**

- Q103. Please explain how the Pure Water Monterey costs will be recovered through rates charged to customers.
- A103. California American Water is proposing to continue the current methodology of applying a single flat surcharge for each unit of water used for all residential and non-residential customers in the Monterey County systems.

Monterey Service Area (Residential – Block Width & Tier Ratios) -- California

American Water proposes in this GRC to maintain the current four tier rate design for its residential single-family and residential multi-family tariff. D.21-11-018 approved the settlements to eliminate the fifth tier, which contained very little usage. The current price signal from the fourth tier is 6.0 times the Tier 1 rates. California American Water is not proposing to make any changes to the existing single-family block widths. California American Water also is proposing to not make any changes with respect to the tier ratios, or as referred to in Attachment 3 to the Direct Testimony of David Mitchell as the

percentage step up in the commodity charge. The current ratios for tiers 1 through 4 are

1.0, 1.5, 4.0 and 6.0, respectively, and are proposed to remain as they currently exist.

Monterey Service Area (Residential – Meter Ratios) – In the Monterey Rate Design proceeding (A.15-07-019), the Commission authorized California American Water to alter the standard meter ratios ¹⁰ for residential customers in the Monterey Service Area to ensure that lower-use customers were not disproportionately affected by the overall change in rate design. Ordering Paragraph #3 of D.16-12-003 discusses the possible elimination of the temporary modification to the standard residential meter ratios for the Monterey Service Area for recovery of the increased percentage of fixed costs in the residential monthly service charge. D.21-11-024 approved California American Water's proposal to close the gap by 50% between the current ratio used to develop the meters rates and standard residential meter ratios. This adjustment had a small impact on the 5/8" meter customers. California American Water is proposing to close the gap by 50% of the remaining 50% gap in this GRC and will consider whether to remove the

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The Monterey Service Area refers to the Monterey Main, Bishop, Hidden Hills and Ryan Ranch service areas, which is a separate tariff area from the Central Satellites. The Central Satellites include Ambler, Toro, Ralph Lane, and Garrapata.

The standard meter ratios are normally used to set the rate differential between the various meter sizes. The meter ratios are set by the meter sizes ability to flow water through the size of meter.

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remaining 25% gap in the subsequent GRC. Additionally, California American Water proposes to set the meter charge to recover 50% of the revenue requirement.

2. Monterey Service Area- Non- Residential Customers

Q104. Please discuss the rate design plan for the Monterey Service Area Non-Residential customers.

A104. California American Water is not proposing changes to the current rate design parameters for non-residential customers. The rate design updates rates based on customers and usage in each of the four divisions, based on their compliance with best management practices ("BMPs"). Additionally, in setting the non-residential and residential rates for the Monterey Service Area, California American Water maintained the existing cost allocation subsidy from non-residential to residential customers as reflected in D.16-12-003. Specifically, D.16-12-003, Conclusion of Law 23 states, "Cost recovery should be realigned by moving 8.4 percent (about three million dollars) from residential to non residential customers in order to promote equity as one factor among several in considering cost recovery, revenue responsibilities, and rate design." The meter charge for commercial customers was increased to recover 50% of fixed costs.

3. Monterey Service Area – Meter Revenue Recovery Between Residential and Non-Residential Customers

Q105. Please describe the proposed relationship between the monthly meter rates for residential and non-residential customers for the Monterey Service Area.

A105. As with all the systems in California American Water, we are proposing that the monthly meter-based service fees be set at 50% higher for non-residential customers then the level set for residential customers. This proposal is to offset the impact of recovering more of the overall revenue requirement for fixed monthly fees. Further explanation of this proposal is in the Direct Testimony of Jeffrey Linam at Section III.G.

4. Central Satellites

Q106. Please discuss the rate design plan for the Central Satellites. Is California American Water proposing to make any changes to the rate designs for the Central Satellites?

A106. Central Satellites – California American Water is proposing only one change to the rate design parameters for the Central Satellites. The proposed change is to ensure that approximately 5% of water sales from these systems will be billed in tier 4. This is to approximate the level of water billed in the final tier category in most of our other systems. D.18-12-021 approved the rate design consolidation of the Ambler, Toro, Ralph Lane, and Garrapata satellite systems onto a single tariff for ratemaking purposes. The revenue requirement for the Central Satellites and Chualar has been calculated by applying the current inflation rate of 8.3% to the present rate revenues to calculate the proposed revenue requirement. The calculated proposed revenue is then set as the revenue requirement for the present rate design model to determine the new proposed rates. This will better align the revenue requirement increases for these systems that are likely driven more by inflationary increases.

5. Monterey Wastewater District

Q107. Please discuss the rate design plan for the Monterey Wastewater customers. Is California American Water proposing to make any changes to the cost allocation or rate designs for active or passive wastewater customer in Monterey County?

A107. California American Water is not proposing to make changes to the existing rate design for its Monterey Wastewater customers in this proceeding. However, as stated in the Direct Testimony of Jeffrey T. Linam, Special Request #18, Section IV.M, California American Water proposes to phase in the rate increase over the three-year GRC cycle to moderate the rate impact. California American Water continues to maintain separation

The revenue requirement was escalated based on the CPI-All Urban Consumers, all items, San Francisco, Oakland, Hayward, California based on a five-year average 2017-2021. Series CUURS49BSA0, CUUSS49BSA0.

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27 28 of its Monterey Wastewater District into two systems, with a separate passive and active revenue requirement.

E. Rate Design Plan - Southern Division

- Q108. Please explain any proposed changes from the current rate design for the Southern Division requested in this rate case.
- A108. California American Water proposes to increase the fixed costs recovered in the meter charge for San Diego County, Los Angeles County and Ventura County Districts. For the Southern Division, California American Water recommends setting the meter charge to collect 50% of the revenue requirement, which is consistent with the proposal for the Central and Northern Divisions. California American Water also proposes to slightly change the variable costs consolidated for the San Diego County district to 35%.
- Q109. What is California American Water's proposal for the acquisitions of the East Pasadena, Bellflower and Warring systems in Southern California?
- A109. California American Water proposes to consolidate the revenue requirement for these three acquisitions but maintain separate rate designs and rates for each system. The Company proposes to slowly transition the rate designs to the Southern Division rates and tariffs. Further details are provided below.

1. East Pasadena

- Q110. How did you determine the level of consumption and consumption by tier for the East Pasadena System?
- A110. California American Water based its consumption forecast on data from the acquired utility. This information was then used to determine total customer usage for the Test Year. East Pasadena currently has only one tier and California American Water proposes to move it to three tiers. For distribution of the total projected usage over the proposed three tiers, we have used the same usage by tier percentage as in the San Marino system

to distribute the usage to three tiers. Since San Marino has a four tier design and California American Water is proposing a three tier design for East Pasadena, tier 1 in East Pasadena is set at the same percentage of usage as tier 2 in San Marino, with tier 3 usage in San Marino equal to the tier 2 usage in East Pasadena, and all remaining consumption for East Pasadena in tier 3, which is equivalent to tier 4 in San Marino. The rate design is based overall on the consolidated Southern Division tier break points.

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Q111. How do you propose to establish the rates for the East Pasadena system?

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A111. For East Pasadena we escalated the present rate revenues by the overall proposed percentage increase for the Southern Division and then ran that revenue requirement through the proposed rate design to establish the proposed rates. For the meter charges,

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we used the same rates as proposed for the rest of the Southern Division.

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2. Bellflower

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Q112. How did you determine the level of consumption and consumption by tier for the Bellflower System?

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A112. For the recent acquisitions, including Bellflower, California American Water based its consumption forecast on data from the acquired utility. This information was then used to determine total customer usage for the Test Year. For distribution of that total projected usage over the proposed three tiers, we have used the same usage distribution by tier as in

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the Baldwin Hills system to distribute the usage to the Bellflower proposed three tiers,

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Q113. How did you proposed to establish the rates for the Bellflower system?

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A113. To develop the rates for the proposed three tier rate design, we set the tier break points at

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Southern Division and then ran the consumption through the rate model to establish the

the same points as the Southern Division. We used the proposed meter charges for the

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proposed rates. To set the revenue requirement, we escalated the current revenue

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requirement by the overall percentage increase for the Southern Division.

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3. Warring

- Q114. How did you determine the level of consumption and consumption by tier for the Warring System?
- A114. California American Water based it consumption forecast, including the average usage per customer for the Warring system on information provided by the acquired system. It was then used to determine total customer usage for the Test Year. To distribute the total projected usage over the proposed two tiers for Warring, we have used the same usage distribution by tier as projected in the consolidated Southern Division.
- Q115. How did you proposed to establish the rates for the Warring system?
- A115. To develop the rates for the proposed two-tier rate design, we set the tier break point at the same point as the Southern Division tier three. We used the proposed meter charges for the Southern Division and then ran the consumption through the rate model to establish the proposed rates. To set the revenue requirement, we escalated the current revenue requirement by the overall percentage increase for the Southern Division.

F. Rate Design Plan -Northern Division

- Q116. Please explain the rate design plan for the Sacramento District.
- A116. California American Water is not proposing to change any of the rate design parameters for the Sacramento or Larkfield districts, all within the Northern Division tariff, except the recovery of 50% of fixed costs through the monthly fixed fee meter charge. Consistent with the proposals in the other Divisions, California American Water is proposing to increase the meter charge in the Northern Division to recover 50% of fixed costs.
- Q117. Please explain the current residential rate design for the Larkfield District.
- A117. California American Water proposes to increase the revenue requirement in the Larkfield service area from the current \$3,116,374 to \$3,750,000. This proposed increase is to

ensure that the rates charged for service in Larkfield do not decrease as a result of increased consumption that occurred as a result of returning customers after the 2017 fire. It would be imprudent in a Sonoma County service area where water supply is constrained to allow rates charged for service to decline because that would probably result in an increase in consumption. California American Water does not propose any change the rate design parameters for the Larkfield District in this application.

G. Northern Division Acquisitions

Q118. There have been a number of acquisitions in the Northern Division over the past 10 years.

Are you proposing that any of these acquisitions remain on separate tariffs from the

Sacramento system tariff?

A118. Yes, we are proposing that two acquired systems, in addition to Larkfield, remain on individual tariffs. Those two systems are Meadowbrook and Bass Lake. Bass Lake is not presently authorized for acquisition, but we anticipate the completion of the acquisition before a decision is rendered in this GRC. Below I will summarize the proposed rate treatment for these two acquisitions. While Fruitridge has been held on a separate tariff to date, I am proposing that the Fruitridge customers be folded into the Sacramento tariff at the beginning of the Test Year. The remaining flat rate customers will be folded into the Sacramento rate tariff as they are converted to meters in accordance with the current process.

1. Meadowbrook

- Q119. What are you proposing for the Meadowbrook system?
- A119. I am proposing that the revenue requirement for the Meadowbrook system be established by simply escalating the amount authorized in the 2022 Step Rate filing by the percentage revenue increase in the overall Northern Division. This increased revenue would then be used to develop the proposed rates using the current rate design and rate model.

2. Bass Lake

Q120. What are you proposing for the Bass Lake system?

A120. I am proposing that the rates for the Bass Lake system be established by simply inflating present rates by the CPI inflation rate of 8.3%. This proposal to inflate the current rates is necessary since there is a shortage of accurate records for the system and to allow time for more in-depth evaluation after the acquisition is complete. There is not information available to determine the actual cost of service at this time. Since most costs should on average inflate at the CPI rate, it makes common sense to them assume that rates would need to go up at least by the CPI inflation increment.

H. Rate Design Attachment 3

- Q121. Have you included as an attachment to this testimony any tables, schedules or other information to provide further details on the rate design proposals made in this testimony?
- A121. Yes, included as <u>Attachment 3</u> to this testimony are a number of tables with explanatory notes intended to provide numerical examples of my rate design and other rate and revenue requirement impacts. <u>Attachment 3</u> provides the impact of the T&D net plant consolidation as well as the examples of how the proposal to increase the percent recovery of fixed costs in the monthly meter fee will impact bills both on a percentage and dollar basis. Most of the tables in <u>Attachment 3</u> provide details of the revenue impacts by customer classification and well as average bill impacts by district by customer classification. The tables are all footnoted to ensure that the reader can easily interpret what is being provided.
- Q122. Does this conclude your testimony?
- A122. Yes, it does.

ATTACHMENT 1

California American Water Calculation of Revenue Lag for Lead Lag Study

All Districts - 2022 General Rate Case

Study Period: Twlelve Months Ended September 2021

Filing Type: Proposed

			San Diego	Monterey		Los Angeles	Ventura					
	District Name	CAW	County	County	Monterey	County	County	Sacramento	Larkfield	Southern	Northern	Central
	>	Corporate	District	District	Wastewater	District	District	District	District	Division	Division	Division
Description of Calculations	District #>	1501	1530	1540	1542	1550	1551	1560	1561	1595	1596	1597
DEVENUE LA C		0.00	47.02	62.22	76.04	40.26	44.24	55.07	FC 26	45.50	FF 00	62.22
REVENUE LAG		0.00	47.83	62.22	76.94	48.36	41.24	55.87	56.26	45.50	55.88	62.22
Service Lag + Billing Lag + Payment La	ag											
Service Lag												
# Days in Year	а		365	365	365	365	365	365	365	365	365	365
# Billing Periods in Year	b		12	12	12	12	12	12	12	12	12	12
Calculation for Average Period	С		2	2	2	2	2	2	2	2	2	2
Average Service Lag (a / b / c)			15.21	15.21	15.21	15.21	15.21	15.21	15.21	15.21	15.21	15.21
	!											
Billing Lag												
Sum of Billing Lag x Billed Amount	d		11,977,967	29,585,253	512,812	8,161,171	15,608,886	19,930,399	2,024,213	35,748,025	21,954,612	29,585,253
Sum Total of Billed Dollars	e		3,196,233	9,385,978	275,179	2,034,107	4,403,140	6,558,122	324,361	9,633,480	6,882,483	9,385,978
Average Billing Lag (d /e)	ı		3.75	3.15	1.86	4.01	3.54	3.04	6.24	3.71	3.19	3.15
Payment Lag	f		2 524 707	0.771.200	F20 102	2 162 467	2 (20 (10	C 2CE 4CC	207 221	0 210 072	C C72 70C	0 771 260
Average A/R Balance	-		2,534,787	8,771,368	538,182	3,163,467	2,620,618	6,365,466	307,321	8,318,872	6,672,786	8,771,368
Less: Avg Uncollectible (i / k)	g		0	0 774 260	520,402	0	0	0	0	0 240 072	0	0 774 260
Net Average Balance (f - g)	h		2,534,787	8,771,368	538,182	3,163,467	2,620,618	6,365,466	307,321	8,318,872	6,672,786	8,771,368
Uncollectibles in A/R	i		0	0	0	0	0	0	0	0	0	0
onconcensies in 7 y it	·											
Total Billed Revenues	j		32,037,072	73,003,674	3,281,290	39,628,716	42,546,113	61,758,701	3,222,601	114,211,901	64,981,302	73,003,674
# Days in Period	k		365	365	365	365	365	365	365	365	365	365
Average Billed Revenues (j / k)	1		87,773	200,010	8,990	108,572	116,565	169,202	8,829	312,909	178,031	200,010
			-	•	•	•		-	*	-	•	· ·
Average Payment Lag (h / l)	,		28.88	43.85	59.87	29.14	22.48	37.62	34.81	26.59	37.48	43.85

End End End End End End End	End End End End
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ATTACHMENT 2

California American Water

Working Cash Calculation

All Districts - 2022 General Rate Case

Filing Type: Final

District # and Name>	1542	Mon	terey Wastew	ater	1595	Sc	outhern Divisio	n
Description	2022	2023	2024	2025	2022	2023	2024	2025
Total Revenue Lag Days	76.9	76.9	76.9	76.9	45.5	45.5	45.5	45.5
Total Expense Lag Days	15.2	15.9	17.3	17.4	26.7	25.0	24.4	24.0
Net Lag Days	61.8	61.0	59.6	59.5	18.8	20.5	21.1	21.5
Daily Expense Requirement	\$9,948.3	\$10,200.1	\$10,963.2	\$11,302.4	\$296,718.1	\$303,271.5	\$327,936.0	\$339,793.7
District-Year Identifier Working Cash Requirement	1542-2022 \$614,617	1542-2023 \$622,196	1542-2024 \$653,662	1542-2025 \$672,642	1595-2022 \$5,588,961	1595-2023 \$6,222,970	1595-2024 \$6,934,470	1595-2025 \$7,293,217
End	End	End	End	End	End	End	End	End

California American Water

Working Cash Calculation

All Districts - 2022 General Rate Case

Filing Type: Final

District # and Name>	1596	N	orthern Divisio	n	1597	C	Central Division	
Description	2022	2023	2024	2025	2022	2023	2024	2025
Total Revenue Lag Days	55.9	55.9	55.9	55.9	62.2	62.2	62.2	62.2
Total Expense Lag Days	13.1	12.8	12.7	12.6	19.2	18.0	16.0	16.0
Net Lag Days	42.8	43.1	43.1	43.3	43.1	44.3	46.2	46.2
Daily Expense Requirement	\$160,114.6	\$165,315.2	\$195,049.4	\$211,354.9	\$165,682.6	\$169,315.0	\$194,320.2	\$201,873.0
District-Year Identifier Working Cash Requirement	1596-2022 \$6,849,313	1596-2023 \$7,128,852	1596-2024 \$8,413,963	1596-2025 \$9,146,413	1597-2022 \$7,132,938	1597-2023 \$7,493,009	1597-2024 \$8,974,847	1597-2025 \$9,321,832
End	End	End	End	End	End	End	End	End

ATTACHMENT 3

2022 General Rate Case (A.2	22-07-00_)			
Cost Allocation Consolidat	tion of T&D Assets			
Table 1				
Test Year				
		Special Request #4	C : 15	
	Special Request #4 Reduction of	Addition of T&D	Special Request #4	
District	T&D Consolidation (\$000)	Consolidation (\$000)	Net Impact (\$000)	
Northern Division	(6,083.4)	6,763.5	680.1	
Central Division	(5,165.5)	3,715.7	(1,449.8)	
Southern Division	(6,298.2)	7,067.9	769.7	
Escalation and Attrition Yea	r			
250didelon dira / tecinelon i edi	·			
		Special Request #4		
	Special Request #4 Reduction of	Addition of T&D	Special Request #4	
District	T&D Consolidation (\$000)	Consolidation (\$000)	Net Impact (\$000)	
Northern Division	(13,184.5)	14,680.7	1,496.2	
Central Division	(10,999.0)	8,065.2	(2,933.8)	
Southern Division	(13,903.9)	15,341.5	1,437.5	
2022 General Rate Case (A.2				
Cost Allocation Exemplary	Meter Equivalent Calculation (Sacra	amento District)		

Table 2					
				Conservation Rates	
			Conservation Rates	TY2024 Non-	Conservation
Description	Water & RFS Meter Sizes	Standard Rates TY2024	TY2024 Residential	Residential	Rates TY2024 RFS
Customers by Meter Size					
	5/8 x 3/4"	57,679	56,735	944	
	3/4"	1,464	1,262	202	
	1"	2,520	756	1,764	
	1-1/2"	965	113	852	
	2"	2,314	26	2,288	
	3"	78	0	78	
	4"	84	0	84	
	6"	29	0	29	
	8"	9	0	9	
	10"	2	0	2	
	5/8 x 3/4" RES to 1" RES MFS	2,765			2,765
	5/8 x 3/4" RES to 1-1/2" RES MFS	9			9
	5/8 x 3/4" RES to 2" RES MFS	0			0
	3/4" RES to 1" RES MFS	0			0
	3/4" RES to 1-1/2" RES MFS	0			0
	3/4" RES to 2" RES MFS	0			0
	1" RES to 1-1/2" RES MFS	0			0
	1" RES to 2" RES MFS	0			0
	1-1/2" RES to 2" RES MFS	0			0
		0			
TOTAL Average Customers		65,144	58,892	6,252	2,774

Лeter Equivalents by Mete	er Size ^{(1) (2)}				
	5/8 x 3/4"	1	1	1.5	
	3/4"	1.5	1.5	2.3	
	1"	2.5	2.5	3.8	
	1-1/2"	5	5	7.5	
	2"	8	8	12.0	
	3"	15	15	22.5	
	4"	25	25	37.5	
	6"	50	50	75.0	
	8"	80	80	120.0	
	10"	115	115	172.5	
	5/8 x 3/4" RES to 1" RES MFS				1.8
	5/8 x 3/4" RES to 1-1/2" RES MFS				3.0
	5/8 x 3/4" RES to 2" RES MFS				4.5
	3/4" RES to 1" RES MFS				2.0
	3/4" RES to 1-1/2" RES MFS				3.3
	3/4" RES to 2" RES MFS				4.8
	1" RES to 1-1/2" RES MFS				3.8
	1" RES to 2" RES MFS				5.3
	1-1/2" RES to 2" RES MFS				6.5
otes (1) The RFS meter ratios	approved in D.21-11-024 are proposed in	the 2022 GRC to mitigat	e impacts to the higher me	ter sizes installed for RFS	customers.
	to the residential standard meter charge in				
nis was a standard assumptio					
•					

5/8 x 3/4" 3/4" 1" 1-1/2" 2"	57,679 2,196 6,300 4,825	56,735 1,893 1,890	1,416 455 6,615	0
1" 1-1/2"	6,300	1,890		0
1-1/2"	•	,	6,615	
	4,825			0
2"		565	6,390	0
	18,512	208	27,456	0
3"	1,170	0	1,755	0
4"	2,100	0	3,150	0
6"	1,450	0	2,175	0
8"	720	0	1,080	0
10"	230	0	345	0
5/8 x 3/4" RES to 1" RES MFS	0	0	0	4,839
/8 x 3/4" RES to 1-1/2" RES MFS	0	0	0	27
5/8 x 3/4" RES to 2" RES MFS	0	0	0	0
3/4" RES to 1" RES MFS	0	0	0	0
3/4" RES to 1-1/2" RES MFS	0	0	0	0
3/4" RES to 2" RES MFS	0	0	0	0
1" RES to 1-1/2" RES MFS	0	0	0	0
1" RES to 2" RES MFS	0	0	0	0
1-1/2" RES to 2" RES MFS	0	0	0	0
	95,182	61,291	50,837	4,866
Total Conservation Meter Equivalent		116,994		
Total Service Charge Revenue Necessary (\$1,000's)		\$43,022.60		
nt	\$452	\$367.73		
	\$37.67	\$30.64	\$30.64	\$30.64
<i>'</i>	6" 8" 10" 5/8 x 3/4" RES to 1" RES MFS /8 x 3/4" RES to 1-1/2" RES MFS 5/8 x 3/4" RES to 2" RES MFS 3/4" RES to 1" RES MFS 3/4" RES to 1-1/2" RES MFS 3/4" RES to 2" RES MFS 1" RES to 1-1/2" RES MFS 1" RES to 1-1/2" RES MFS 1" RES to 2" RES MFS 1-1/2" RES to 2" RES MFS 1-1/2" RES to 2" RES MFS	6" 1,450 8" 720 10" 230 5/8 x 3/4" RES to 1" RES MFS 0 /8 x 3/4" RES to 1-1/2" RES MFS 0 5/8 x 3/4" RES to 2" RES MFS 0 3/4" RES to 1" RES MFS 0 3/4" RES to 1-1/2" RES MFS 0 3/4" RES to 1-1/2" RES MFS 0 3/4" RES to 2" RES MFS 0 1" RES to 2" RES MFS 0 1" RES to 2" RES MFS 0 1" RES to 2" RES MFS 0 1-1/2" RES to 2" RES MFS 0 4-1/2" RES to 2" RES MFS 0 5/5/8 x 3/4" RES to 2" RES MFS 0 4-1/2" RES to 2" RES MFS 0 5/5/8 x 3/4" RES to 2" RES MFS 0 5/5/8 x 3/4" RES to 2" RES MFS 0 5/5/8 x 3/4" RES to 2" RES MFS 0 5/5/8 x 3/4" RES to 2" RES MFS 0 5/5/8 x 3/4" RES to 2" RES MFS 0 5/5/8 x 3/4" RES to 2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/5/8 x 3/4" RES to 1-1/2" RES MFS 0 5/6 x 3/4" RES to 1-1/2" RES MFS 0 5/6 x 3/4" RES to 1-1/2" RES MFS 0 5/6 x 3/4" RES to 1-1/2" RES MFS 0 5/6 x 3/4" RES to 1-1/2" RES MFS 0 5/6 x 3/4" RES to 1-1/2" RES MFS 0 5/6 x 3/4" RES to 1-1/2" RES MFS 0 5/6 x 3/4" RES to 1-1/2" RES MFS 0 5/6 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5/7 x 3/4" RES to 1-1/2" RES MFS 0 5	6" 1,450 0 8" 720 0 10" 230 0 5/8 x 3/4" RES to 1" RES MFS 0 0 5/8 x 3/4" RES to 1-1/2" RES MFS 0 0 5/8 x 3/4" RES to 2" RES MFS 0 0 3/4" RES to 1-1/2" RES MFS 0 0 1" RES to 2" RES MFS 0 0 1" RES to 1-1/2" RES MFS 0 0 1" RES to 2" RES MFS 0 0 1" RES to 2" RES MFS 0 0 1-1/2" RES MFS 0 0 0 1 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0	6" 1,450 0 2,175 8" 720 0 1,080 10" 230 0 345 5/8 x 3/4" RES to 1" RES MFS 0 0 0 0 6/8 x 3/4" RES to 1-1/2" RES MFS 0 0 0 0 0 5/8 x 3/4" RES to 2" RES MFS 0 0 0 0 0 0 3/4" RES to 1" RES MFS 0 0 0 0 0 0 0 3/4" RES to 1" RES MFS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

SERVICE CHARGE RATE BY	METER SIZE				
	5/8 x 3/4"	\$37.67	\$30.64	\$45.97	\$0.00
	3/4"	\$56.50	\$45.97	\$68.95	\$0.00
	1"	\$94.17	\$76.61	\$114.92	\$0.00
	1-1/2"	\$188.33	\$153.22	\$229.83	\$0.00
	2"	\$301.34	\$245.16	\$367.73	\$0.00
	3"	\$565.00	\$459.67	\$689.50	\$0.00
	4"	\$941.67	\$766.11	\$1,149.17	\$0.00
	6"	\$1,883.35	\$1,532.22	\$2,298.33	\$0.00
	8"	\$3,013.36	\$2,451.56	\$3,677.33	\$0.00
	10"	\$4,331.70	\$3,524.11	\$5,286.17	\$0.00
	5/8 x 3/4" RES to 1" RES MFS	\$0.00	\$0.00	\$0.00	\$53.63
	5/8 x 3/4" RES to 1-1/2" RES MFS	\$0.00	\$0.00	\$0.00	\$91.93
	5/8 x 3/4" RES to 2" RES MFS	\$0.00	\$0.00	\$0.00	\$137.90
	3/4" RES to 1" RES MFS	\$0.00	\$0.00	\$0.00	\$61.29
	3/4" RES to 1-1/2" RES MFS	\$0.00	\$0.00	\$0.00	\$99.59
	3/4" RES to 2" RES MFS	\$0.00	\$0.00	\$0.00	\$145.56
	1" RES to 1-1/2" RES MFS	\$0.00	\$0.00	\$0.00	\$114.92
	1" RES to 2" RES MFS	\$0.00	\$0.00	\$0.00	\$160.88
	1-1/2" RES to 2" RES MFS	\$0.00	\$0.00	\$0.00	\$199.19

2022 General Rate Case (A.22-07-00_)

Monterey District

Table 1

Proposed Meter Ratios -- Single Family

	5 05 05 054	D 46 42 000	5 34 44 343	
	D.86-05-064	D.16-12-003	D.21-11-018	Proposed Ratio
Meter Size	Ratio	Ratio	Ratio	2022 GRC
5/8"	1.0	1.0	1.0	1.0
3/4"	1.5	1.8	1.6	1.6
1"	2.5	3.5	3.0	2.7
1 1/2"	5.0	11.0	8.0	6.5
2"	8.0	18.7	13.4	10.7
3"	15.0	35.1	25.1	20.0
4"	25.0	61.4	43.2	34.1
6"	50.0	131.6	90.8	70.4
8"	80.0	210.6	145.3	112.7

2022 General Rate Case (A.22-07-00_)

Monterey District

Table 2

Current and Proposed Percentage Step Ups in Commodity Charge -- Single Family

Tier	Current Ratio	Proposed Ratio
1	1.00	1.500
2	1.50	3.000
3	4.00	4.500
4	6.00	625.0%
5	N/A	N/A

2022 General Rate Case (A.22-07-00_)

Monterey District

Table 3

Impact of Proposal on Tier Rates -- Single Family

	Tens	of cfs	C	GLs
Tier	Current	Proposed	Current	Proposed
1	\$1.1100	\$0.9173	\$1.4840	\$1.2263
2	\$1.5019	\$1.4981	\$2.0078	\$2.0029
3	\$3.4609	\$2.0790	\$4.6268	\$2.7794
4	\$5.0280	\$2.7567	\$6.7220	\$3.6855
5	\$0.0000	N/A	\$0.0000	N/A

2022 General Rate Case (A.22-07-00_)

Monterey District

Table 4

Summary of Changes to Single Family Residential Rates -- Single Family

	Current			Proposed					
								Proposed % Step	
	2021 Usage	% of Authoirzed	Tier Width	Tier Endpoint	2024 Usage	% of Proposed	Proposed	Up in Commodity	Proposed Base
	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Tier Width	Rate	Rate (\$/CGLs)
Tier 1	9,478,157	62.9%	29.9	29.9	8,016,972	58.01%	30	-17.4%	\$1.2263
Tier 2	3,390,438	22.5%	29.9	59.8	3,323,690	24.05%	30	-0.2%	\$2.0029
Tier 3	1,416,450	9.4%	54.5	114.3	1,597,503	11.56%	54	-39.9%	\$2.7794
Tier 4	783,568	5.2%	N/A	N/A	881,704	6.38%	N/A	-45.2%	\$3.6855

2022 General Rate Case (A.22-07-00_) Monterey District Table 5 Proposed Meter Ratios -- Multi-Family

	D.86-05-064	D.16-12-003	D.21-11-018	Proposed Ratio
Meter Size	Ratio	Ratio	Ratio	2022 GRC
5/8"	1.0	1.0	1.00	1.00
3/4"	1.5	1.8	1.63	1.56
1"	2.5	3.5	3.00	2.75
1 1/2"	5.0	11.0	7.99	6.49
2"	8.0	18.7	13.36	10.68
3"	15.0	35.1	25.05	20.03
4"	25.0	61.4	43.22	34.11
6"	50.0	131.6	90.82	70.41
8"	80.0	210.6	145.31	112.66

2022 General Rate Case (A.22-07-00_)

Monterey District

Table 6

Current and Proposed Percentage Step Ups in Commodity Charge -- Multi-Family

Tier	Current Ratio	Proposed Ratio
1	1.00	1.00
2	1.50	2.00
3	4.00	4.50
4	6.00	6.25
5	N/A	N/A

2022 General Rate Case (A.22-07-00_)

Monterey District

Table 7

Impact of Proposal on Tier Rates -- Multi-Family

	Tens	of cfs	C	GLs
Tier	Current	Proposed	Current	Proposed
1	\$0.9294	\$1.0399	\$1.2425	\$1.3902
2	\$1.2308	\$1.7434	\$1.6454	\$2.3308
3	\$2.7380	\$3.5023	\$3.6605	\$4.6822
4	\$3.9439	\$4.7335	\$5.2726	\$6.3282
5	\$0.0000	N/A	\$0.0000	N/A

2022 General Rate Case (A.22-07-00_)

Monterey District

Table 8

Summary of Changes to Multi-Family Residential Rates

	Current			Proposed					
								Proposed % Step	
	2021 Usage	% of Authoirzed	Tier Width	Tier Endpoint	2024 Usage	% of Proposed	ProposedTier	Up in Commodity	Proposed Base
	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Width	Rate	Rate (\$/CGLs)
Tier 1	2,278,929	62.8%	18.7	18.7	2,371,111	68.93%	19	11.9%	\$1.3902
Tier 2	928,990	25.6%	18.7	37.4	852,612	24.79%	19	41.7%	\$2.3308
Tier 3	206,845	5.7%	13.5	50.9	121,595	3.53%	13	27.9%	\$4.6822
Tier 4	214,103	5.9%	N/A	N/A	94,697	2.75%	N/A	20.0%	\$6.3282

2022 General Rate Case (A.22-07-00_) Monterey District Table 5 Proposed Meter Ratios -- Non-Residential

	D.86-05-064	Proposed Ratio
Meter Size	Ratio	2022 GRC
5/8"	1.0	1.50
3/4"	1.5	2.34
1"	2.5	4.12
1 1/2"	5.0	9.74
2"	8.0	16.02
3"	15.0	30.04
4"	25.0	51.16
6"	50.0	105.62
8"	80.0	168.98

2022 General Rate Case (A.22-07-00_) Monterey District Table 9

Summary of Changes to Non-Residential Customer Rates

	Current			Proposed		
			Present			Proposed
	2021 Usage	% of Authoirzed	Volumetric	2024 Usage	% of Proposed	Volumetric
	(Authorized)	Usage	Rates (\$/CGLs)	(Proposed)	Usage	Rates (\$/CGLs)
Division 1	6,639,282	68.6%	\$2.3335	6,942,431	70.3%	\$2.3897
Division 2	599,979	6.2%	\$2.5706	571,290	5.8%	\$2.6322
Division 3	2,193,550	22.7%	\$2.8078	2,091,248	21.2%	\$2.8747
Division 4	240,995	2.5%	\$5.1791	267,554	2.7%	\$5.2998

Current and Proposed Percentage Step Ups in Commodity Charge -- Single Family

Southern Division

	Current Rate Differential to SQR	Proposed Rate Differential to SQR
Tier 1	80.0%	90.0%
Tier 2	115.0%	105.0%
Tier 3	132.0%	118.0%
Tier 4	148.3%	133.0%

East Pasadena

	Current Rate Differential to SQR	Proposed Rate Differential to SQR
Tier 1	100.0%	90.0%
Tier 2	0.0%	115.0%
Tier 3	0.0%	128.9%

Warring

	Current Rate Differential to SQR	Proposed Rate Differential to SQR
Tier 1	100.0%	95.0%
Tier 2	0.0%	177.3%

Bellflower

	Current Rate Differential to SQR	Proposed Rate Differential to SQR
Tier 1	100.0%	95.0%
Tier 2	0.0%	100.0%
Tier 3	0.0%	119.3%

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						San D	iego	0						
		CC	Fs							CGL	.S			
		Proposed Consolidation		Proposed Consolidation Purchased	To	otal Proposed			c	Proposed onsolidation	Cor	Proposed nsolidation urchased	Tota	al Proposed
Tier	Current	Base		Vater Add on	l	onsolidation		Current		Base		iter Add on		solidation
1	\$ 6.1153	\$ 4.4870	\$	2.1230	\$	6.6100	\$	8.1756	\$	5.9987	\$	2.8382	\$	8.8369
2	\$ 8.7904	\$ 5.2349	\$	2.4768	\$	7.7117	\$	11.7518	\$	6.9985	\$	3.3112	\$	10.3097
3	\$ 10.0897	\$ 5.8830	\$	2.7834	\$	8.6664	\$	13.4889	\$	7.8650	\$	3.7212	\$	11.5862
4	\$ 11.3360	\$ 6.6308	\$	3.1373	\$	9.7681	\$	15.1551	\$	8.8648	\$	4.1942	\$	13.0590

						Vent	ura							
		(CCF	S						CGL	.S			
		Proposed Consolidation	1	Proposed Consolidation Purchased	To	otal Proposed			(Proposed Consolidation	Cor	roposed nsolidation urchased	Tota	l Proposed
Tier	Current	Base		Water Add on		onsolidation		Current		Base		ter Add on		solidation
1	\$ 4.4143	\$ 4.487	70	\$ 0.9664	\$	5.4535	\$	5.9014	\$	5.9987	\$	1.2920	\$	7.2908
2	\$ 6.3450	\$ 5.234	19	\$ 1.1275	\$	6.3624	\$	8.4826	\$	6.9985	\$	1.5074	\$	8.5059
3	\$ 7.2823	\$ 5.883	30	\$ 1.2671	\$	7.1501	\$	9.7357	\$	7.8650	\$	1.6940	\$	9.5590
4	\$ 8.1822	\$ 6.630	08	\$ 1.4282	\$	8.0590	\$	10.9388	\$	8.8648	\$	1.9094	\$	10.7741

						Lo	os Angeles- E	Bald	lwin Hills					
			CCF	S							CGL	S		
Tier	Current		Proposed Consolidation Base	Cons Pui	oposed solidation rchased er Add on		al Proposed		Current		Proposed onsolidation Base	Con: Pu	oposed solidation rchased er Add on	Proposed solidation
1	\$ 3.86	59 9	\$ 4.4870	\$	0.2129	\$	4.6999	\$	5.1684	Ś	5.9987	Ś	0.2846	\$ 6.2833
2	<u> </u>	73		\$	0.2483	\$	5.4832	\$	7.4295	<u> </u>	6.9985	\$	0.3320	\$ 7.3305
3	\$ 6.37	79 \$	\$ 5.8830	\$	0.2791	\$	6.1621	\$	8.5266	\$	7.8650	\$	0.3731	\$ 8.2381
4	\$ 7.16	53 \$	\$ 6.6308	\$	0.3145	\$	6.9454	\$	9.5807	\$	8.8648	\$	0.4205	\$ 9.2853

					Los Angele	s- D	uarte					
		CCF	s					CGL	.S			
Tier	Current	Proposed Consolidation Base	Con Pu	roposed nsolidation urchased ter Add on	al Proposed nsolidation		Current	Proposed onsolidation Base	Cons	oposed olidation chased or Add on	1	Proposed solidation
1	\$ 3.4485	\$ 4.4870	\$	-	\$ 4.4870	\$	4.6103	\$ 5.9987	\$	-	\$	5.9987
2	\$ 4.9573	\$ 5.2349	\$	-	\$ 5.2349	\$	6.6275	\$ 6.9985	\$	-	\$	6.9985
3	\$ 5.6897	\$ 5.8830	\$	-	\$ 5.8830	\$	7.6065	\$ 7.8650	\$	-	\$	7.8650
4	\$ 6.3929	\$ 6.6308	\$	-	\$ 6.6308	\$	8.5466	\$ 8.8648	\$	-	\$	8.8648

					Lo	os Angeles-	San	Marino						
		CCF	S							CGL	S			
		roposed nsolidation	Consol Purch	oosed lidation hased		l Proposed			C	Proposed onsolidation	Cons	oposed solidation rchased		Proposed
Tier	Current	Base	water	Add on	Con	solidation		Current		Base	wate	er Add on	Cons	solidation
1	\$ 3.4485	\$ 4.4870	\$	-	\$	4.4870	\$	4.6103	\$	5.9987	\$	-	\$	5.9987
2	\$ 4.9573	\$ 5.2349	\$	-	\$	5.2349	\$	6.6275	\$	6.9985	\$	-	\$	6.9985
3	\$ 5.6897	\$ 5.8830	\$	-	\$	5.8830	\$	7.6065	\$	7.8650	\$	-	\$	7.8650
4	\$ 6.3929	\$ 6.6308	\$	-	\$	6.6308	\$	8.5466	\$	8.8648	\$	-	\$	8.8648

							East Pas	ade	ena					
				CCF	S					CGL	.S			
					Proposed Purchased					Proposed Consolidation	Conso	posed olidation chased	Total	Proposed
Tier	C	Current	Proposed Ra	te	Water Add on	Tota	al Proposed		Current	Base		r Add on		olidation
1	\$	3.0944	\$ 3.67	'58	\$ -	\$	3.6758	\$	4.1369	\$ 4.9141	\$	-	\$	4.9141
2	\$	3.0944	\$ 4.69	968	\$ -	\$	4.6968	\$	4.1369	\$ 6.2792	\$	-	\$	6.2792
3	\$	-	\$ 5.26	645	\$ -	\$	5.2645	\$	-	\$ 7.0381	\$	-	\$	7.0381
4	\$	-	\$	-	\$ -	\$	-	\$	-	\$ -	\$	-	\$	-

						Warr	ing						
			CCF	s						CGL	.S		
Tier	Current		Proposed Consolidation Base	Proposed Consolidation Purchased Water Add on	T	otal Proposed Consolidation		Current	С	Proposed onsolidation Base	Cons	oposed solidation rchased er Add on	l Proposed solidation
1		920		\$ -	Ś	2.0747	Ś		Ś	2.7737	Ś	-	\$ 2.7737
2	\$ 1.7	-	•	\$ -	\$	3.8721	\$	-	\$	5.1765	\$	-	\$ 5.1765
3	\$	-	\$ -	\$ -	\$	-	\$	-	\$	-	\$	-	\$ -
4	\$	-	\$ -	\$ -	\$	-	\$	-	\$	-	\$	-	\$ -

						Bellflo	we	r					
		CCF	S						CGL	.S			
Tier	Current	Proposed nsolidation Base	Con: Pu	roposed solidation irchased er Add on		al Proposed		Current	Proposed onsolidation Base	Con: Pu	oposed solidation rchased er Add on		l Proposed solidation
Her	 Current		wat	er Add on	Cor		<u> </u>	Current		vvat	er Add on	Con	
1	\$ 2.2080	\$ 3.0302	\$	-	\$	3.0302	\$	2.9519	\$ 4.0511	\$	-	\$	4.0511
2	\$ -	\$ 3.1897	\$	-	\$	3.1897	\$	-	\$ 4.2643	\$	-	\$	4.2643
3	\$ -	\$ 3.8037	\$	-	\$	3.8037	\$	-	\$ 5.0852	\$	-	\$	5.0852
4	\$ -	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-

Summary of Changes to Single Family Residential Rates -- Single Family

San Diego

		Curre	ent			Prop	osed Consolidati	on	
								Proposed %	
								Step Up in	
	2021 Usage	% of Authoirzed	Tier Width	Tier Endpoint	2024 Usage	% of Proposed	ProposedTier	Commodity	Proposed Base
Tier	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Width	Rate	Rate (\$/CGLs)
Tier 1	8,336,228	59.2%	85	85	8,395,640	59.95%	85	8.1%	\$8.8369
Tier 2	2,198,566	15.6%	50	135	2,296,279	16.40%	50	-12.3%	\$10.3097
Tier 3	2,338,090	16.6%	163	298	2,461,746	17.58%	163	-14.1%	\$11.5862
Tier 4	1,220,486	8.7%	N/A		851,026	6.08%	N/A	-13.8%	\$13.0590

Ventura

		Curre	ent			Prop	osed Consolidati	on	
								Proposed %	
								Step Up in	
	2021 Usage	% of Authoirzed	Tier Width	Tier Endpoint	2024 Usage	% of Proposed	ProposedTier	Commodity	Proposed Base
Tier	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Width	Rate	Rate (\$/CGLs)
Tier 1	16,633,614	59.2%	85	85	15,853,470	59.95%	85	23.5%	\$7.2908
Tier 2	4,386,887	15.6%	50	135	4,336,060	16.40%	50	0.3%	\$8.5059
Tier 3	4,665,286	16.6%	163	298	4,648,510	17.58%	163	-1.8%	\$9.5590
Tier 4	2,435,285	8.7%	N/A		1,606,991	6.08%	N/A	-1.5%	\$10.7741

Los Angeles- Baldwin Hills

		Curre	ent			Prop	osed Consolidati	on	
								Proposed %	
								Step Up in	
	2021 Usage	% of Authoirzed	Tier Width	Tier Endpoint	2024 Usage	% of Proposed	ProposedTier	Commodity	Proposed Base
Tier	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Width	Rate	Rate (\$/CGLs)
Tier 1	3,931,831	59.2%	85	85	4,027,114	59.95%	85	21.6%	\$6.2833
Tier 2	1,036,966	15.6%	50	135	1,101,450	16.40%	50	-1.3%	\$7.3305
Tier 3	1,102,774	16.6%	163	298	1,180,819	17.58%	163	-3.4%	\$8.2381
Tier 4	575,649	8.7%	N/A		408,209	6.08%	N/A	-3.1%	\$9.2853

Los Angeles- Duarte

	_	Los Angeles- Duarte										
		Curre	ent		Proposed Consolidation							
								Proposed %				
								Step Up in				
	2021 Usage	% of Authoirzed	Tier Width	Tier Endpoint	2024 Usage	% of Proposed	ProposedTier	Commodity	Proposed Base			
Tier	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Width	Rate	Rate (\$/CGLs)			
Tier 1	5,845,850	59.2%	85	85	6,358,527	59.95%	85	30.1%	\$5.9987			
Tier 2	1,541,763	15.6%	50	135	1,739,112	16.40%	50	5.6%	\$6.9985			
Tier 3	1,639,605	16.6%	163	298	1,864,430	17.58%	163	3.4%	\$7.8650			
Tier 4	855,876	8.7%	N/A		644,534	6.08%	N/A	3.7%	\$8.8648			

Los Angeles- San Marino

		Curre	ent		Proposed Consolidation					
							Proposed %			
								Step Up in		
	2021 Usage	% of Authoirzed	Tier Width	ier Width Tier Endpoint 2		% of Proposed	ProposedTier	Commodity	Proposed Base	
Tier	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Width	Rate	Rate (\$/CGLs)	
Tier 1	13,057,367	59.2%	85	85	13,086,272	59.95%	95.1	30.1%	\$5.9987	
Tier 2	3,443,701	15.6%	50	135	3,579,207	16.40%	39.9	5.6%	\$6.9985	
Tier 3	3,662,244	16.6%	N/A	#VALUE!	3,837,120	17.58%	163	3.4%	\$7.8650	
Tier 4	1,911,696	8.7%	N/A		1,326,493	6.08%	N/A	3.7%	\$8.8648	

East Pasadena

		Curre	ent		Proposed Consolidation						
						Proposed %					
								Step Up in			
	2021 Usage	% of Authoirzed	Tier Width	Tier Endpoint	2024 Usage	% of Proposed	ProposedTier	Commodity	Proposed Base		
Tier	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Width	Rate	Rate (\$/CGLs)		
Tier 1	-	100.0%	N/A	N/A	3,115,222	66.20%	135	18.8%	\$4.9141		
Tier 2	-	0.0%	N/A	N/A	1,063,877	22.61%	163	N/A	\$6.2792		
Tier 3	-	0.0%	N/A	N/A	526,517	11.19%	N/A	N/A	\$7.0381		
Tier 4	-	0.0%	N/A	N/A	-	0.00%	N/A	N/A	\$0.0000		

Warring

		Curre	ent		Proposed Consolidation						
								Proposed %			
								Step Up in			
	2021 Usage	% of Authoirzed	Tier Width	ier Width Tier Endpoint		% of Proposed	ProposedTier	Commodity	Proposed Base		
Tier	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Width	Rate	Rate (\$/CGLs)		
Tier 1	-	100.0%	N/A	N/A	1,266,527	93.92%	298	15.8%	\$2.7737		
Tier 2	-	0.0%	N/A	N/A	81,990	6.08%	N/A	N/A	\$5.1765		
Tier 3	-	0.0%	N/A	N/A	-	0.00%	N/A	N/A	\$0.0000		
Tier 4	-	0.0%	N/A	N/A	-	0.00%	N/A	N/A	\$0.0000		

Bellflower

		Curre	ent		Proposed Consolidation					
							Proposed %			
								Step Up in		
	2021 Usage	% of Authoirzed	Tier Width	Fier Width Tier Endpoint 2		% of Proposed	ProposedTier	Commodity	Proposed Base	
Tier	(Authorized)	Usage	(CGLs)	(CGLs) (CGLs)		Usage	Width	Rate	Rate (\$/CGLs)	
Tier 1	-	100.0%	N/A	N/A	1,214,090	65.40%	85	37.2%	\$4.0511	
Tier 2	-	0.0%	N/A	N/A	327,079	17.62%	50	N/A	\$4.2643	
Tier 3	-	0.0%	N/A	A N/A		16.99%	N/A	N/A	\$5.0852	
Tier 4	-	0.0%	N/A	N/A	-	0.00%	N/A	N/A	\$0.0000	

5/8 ir	nch Meter Ra	te		
			Pro	posed
	Current		Con	solidation
San Diego	\$	16.52	\$	22.96
Ventura	\$	16.52	\$	22.96
Los Angeles- Baldwin Hills	\$	16.52	\$	22.96
Los Angeles- Duarte	\$	16.52	\$	22.96
Los Angeles- San Marino	\$	16.52	\$	22.96
East Pasadena	\$	17.44	\$	14.59
Warring	\$	42.59	\$	46.33
Bellflower	\$	29.63	\$	25.23

Percentage of Purchased Water Consolidated

San Diego	53%
Ventura	75%
Los Angeles- Baldwin Hills	90%
Los Angeles- Duarte	100%
Los Angeles- San Marino	100%

2022 General Rate Case (A.22-07-00_)

Northern Division

Table 1

Current and Proposed Percentage Step Ups in Commodity Charge -- Single Family

Sacramento

Tier Breakpoint	Current Rate Differential to SQR	Proposed Rate Differential to SQR
Tier 1	86%	82.1%
Tier 2	115%	125.0%
Tier 3	145.70%	150.0%

Larkfield

Tier Breakpoint	Current Rate Differential to SQR	Proposed Rate Differential to SQR
Tier 1	96.0%	96.0%
Tier 2	100.0%	100.0%
Tier 3	115.0%	115.0%
Tier 4	130.5%	118.6%

Meadowbrook

Tier Breakpoint	Current Rate Differential to SQR	Proposed Rate Differential to SQR
Tier 1	95.0%	75.0%
Tier 2	100.0%	100.0%
Tier 3	111.5%	111.0%

Bass Lake

Tier Breakpoint	Current Rate Differential to SQR	Proposed Rate Differential to SQR
Tier 1	100%	100%

2022 General Rate Case (A.22-07-00_) Northern Division

Table 2

Impact of Proposal on Tier Rates -- Single Family

Sacramento

	CCFs				CGLs				
Tier	Current Proposed			Current		Proposed			
HEI		Current		Порозец		Current		торозец	
1	\$	3.3999	\$	3.0717	\$	4.5453	\$	4.1065	
2	\$	4.5586	\$	4.6761	\$	6.0944	\$	6.2515	
3	\$	5.7750	\$	5.6114	\$	7.7205	\$	7.5018	

Larkfield

		CC	:Fs		CGLs				
Tier	Current		Proposed		Current		Proposed		
1	\$	6.4018	\$	6.1608	\$	8.5586	\$	8.2364	
2	\$	6.6689	\$	6.4175	\$	8.9156	\$	8.5795	
3	\$	7.6690	\$	7.3801	\$	10.2527	\$	9.8665	
4	\$	8.7028	\$	7.6112	\$	11.6348	\$	10.1753	

Meadowbrook

	CCFs					CGLs			
Tier		Current	ırrent Proposed		Current		Proposed		
1	\$	1.7287	\$	1.5271	\$	2.3112	\$	2.0415	
2	\$	1.8200	\$	2.0361	\$	2.4332	\$	2.7221	
3	\$	2.0280	\$	2.2605	\$	2.7112	\$	3.0220	

2022 General Rate Case (A.22-07-00_) Northern Division Table 3

Summary of Changes to Single Family Residential Rates -- Single Family

Sacramento

		Curr	ent		Proposed					
								Proposed %		
		% of						Step Up in		
	2021 Usage	Authoirzed	Tier Width	Tier Endpoint	2024 Usage	% of Proposed	ProposedTier	Commodity	Proposed Base	
Tier	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Width	Rate	Rate (\$/CGLs)	
Tier 1	34,732,265	65.0%	74.8	74.8	37,149,174	65.39%	75	-9.7%	\$4.1065	
Tier 2	11,755,536	22.0%	74.8	149.6	12,751,222	22.44%	75	2.6%	\$6.2515	
Tier 3	6,946,453	13.0%			6,914,752	12.17%		-2.8%	\$7.5018	

Larkfield

		Curr	ent		Proposed					
								Proposed %		
		% of						Step Up in		
	2021 Usage	Authoirzed	Tier Width	Tier Endpoint	2024 Usage	% of Proposed	ProposedTier	Commodity	Proposed Base	
Tier	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Width	Rate	Rate (\$/CGLs)	
Tier 1	726,962	50.9%	37.4	37.4	723,056	45.71%	37	-3.8%	\$8.2364	
Tier 2	571,286	40.0%	97.5	134.9	686,336	43.39%	98	-3.8%	\$8.5795	
Tier 3	68,554	4.8%	55.5	190.4	88,337	5.59%	55	-3.8%	\$9.8665	
Tier 4	61,413	4.3%	N/A		83,940	5.31%	N/A	-12.5%	\$10.1753	

Meadowbrook

		Curi	rent		Proposed						
								Proposed %			
		% of						Step Up in			
	2021 Usage	Authoirzed	Tier Width	Tier Endpoint	2024 Usage	% of Proposed	ProposedTier	Commodity	Proposed Base		
Tier	(Authorized)	Usage	(CGLs)	(CGLs)	(Proposed)	Usage	Width	Rate	Rate (\$/CGLs)		
Tier 1	1,331,302	51.7%	34	34	593,922	26.00%	34	-11.7%	\$2.0415		
Tier 2	661,788	25.7%	24	58	342,648	15.00%	24	11.9%	\$2.7221		
Tier 3	581,962	22.6%			1,347,747	59.00%		N/A	\$3.0220		

5/8 inch Meter Rate									
	Current		Propose	ed					
Sacramento	\$	19.16	\$	30.64					
Larkfield	\$	17.99	\$	23.49					
Meadowbrook	\$	19.77	\$	27.71					